Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

CT Dept of Energy & Environmental Protection
Central Permit Processing Unit
JUN 04 2024
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General Permit Registration Form for Concentrated Animal Feeding Operations (CAFO)

Please complete this form in accordance with the instructions to ensure the proper handling of your registration. Please print or type unless otherwise noted. A Comprehensive Nutrient Management Plan (CNMP) and the Registration Fee must be submitted with this Registration.

CPPU USE ONLY

App #: 202406963

Doc #: 276290

Check #: to be billed

Program: Agriculture Permits

Part I: Registration Type and Fee Information

Check all appropriate boxes to identify the registration type:	Fees:
☐ **Small CAFO**	
☐ New registration	$100.00 [#2358]
☐ Modification of Registration and/or CNMP: Permit No. _____	$0 [#2361]
☐ **Medium CAFO**	
☐ New registration	$250.00 [#2359]
☐ Modification of Registration and/or CNMP: Permit No._____	$0 [#2361]
☑ **Large CAFO**	
☑ New registration	$500.00 [#2360]
☐ Modification of Registration and/or CNMP: Permit No._____	$0 [#2361]
Town Location: LEBANON	
This registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection or by such other method as the commissioner may allow.	

Part II: Surrender or Withdrawal of Existing Permit or Application

1. If you currently hold an individual permit for the discharge(s) you are registering, you must request to surrender the individual permit to be authorized under the subject general permit.

   a. Do you request to surrender your individual permit? ☐ Yes ☑ No

   b. If yes, please provide your individual permit number:

2. If you currently have a pending individual permit application for discharge(s) you are registering, you must withdraw your individual permit application to be authorized under the subject general permit.

   a. Do you request to withdraw your individual permit application? ☐ Yes ☑ No

   b. If yes, please provide your application number:

Part III: Registrant Information

If a registrant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, registrant's name shall be stated **exactly** as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of State's database. (onlineBusinessSearch (ct.gov))

If a registrant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the Request to Change Company/Individual Information to the address indicated on the form. If there is a change in name of the entity holding a DEEP license or a change in ownership, contact the Office of Planning and Program Development (OPPD) at DEEP.OPPD@ct.gov . For any other changes, contact the specific program from which you hold a current DEEP license.

1. **Registrant name:** GRAYWALL FARMS LLC

   Mailing Address: 49 CHAPPELL RD

   City/Town: LEBANON CT 06249 State: CT Zip Code: 06249

   Business Phone: 860 208 7465 ext.:

   Contact Person: Lincoln Chesmer Phone: ext.

   *E-mail: lincoln@graywallfarmsct.com

   *By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes.

2. **Billing contact name (if different than the registrant):**

   Mailing Address:

   City/Town: State: Zip Code:

   Business Phone: ext.:

   Contact Person: Phone: ext.

   *E-mail:

Part III: Registrant Information (continued)

3. **Primary contact for departmental correspondence and inquiries, if different than the registrant:**

   Name:

   Mailing Address:

   City/Town: State: Zip Code:

   Business Phone: ext.:

   Contact Person: Phone: ext.

   *E-mail:

4. **Owner of the property on which the CAFO is located, if different than the registrant:**

   Legal Name of Property Owner: GREEN GATE LLC

   Mailing Address: 49 CHAPPELL RD

   City/Town: LEBANON State: CT Zip Code: 06249

   Business Phone: 860 208 7465 ext.:

   Contact Person: Lincoln Chesmer Phone: ext.

   *E-mail: lincoln@graywallfarmsct.com

5. **Engineer(s) or consultant(s) employed or retained to assist in preparing this registration or in designing or constructing the activity:**

   Firm Name:

   Mailing Address:

   City/Town: State: Zip Code:

   Business Phone: ext.:

   Attorney: Phone: ext.

   *E-mail:

☐ Check here if additional sheets are necessary, and label and attach them.

Part IV: Pre-Application Meeting

If a pre-application meeting was held concerning the subject activity, provide the following:

DEEP Staff Name: _____ Pre-Application Meeting Date: _____

Part V: Site Information

1. **CAFO NAME:** GRAYWALL FARMS LLC

   Primary Address of CAFO: 49 CHAPPELL RD

   City/Town: LEBANON State: CT Zip Code: 06249

   *Latitude: *Longitude:

   Watershed:

   *Lat/Long of entrance of the production area.

Part V: Site Information (continued)

2. **INDIAN LANDS:** Is or will the CAFO be located on federally recognized Indian lands? ☐ Yes ☑ No

3. **COASTAL BOUNDARY:** Is there any activity included in, or proposed to be implemented by the CAFO that will be located within the coastal boundary as delineated on DEEP approved coastal boundary maps? ☐ Yes ☑ No

   If yes, your Comprehensive Nutrient Management Plan must contain provisions to assure compliance with Connecticut's Coastal Management Act (CCMA), sections 22a-92 of the Connecticut General Statutes (CGS), as amended and will not cause adverse impacts to coastal resources as defined in CGS section 22a-93.

   Information on the coastal boundary is available at www.cteco.uconn.edu/map_catalog.asp (Select the town and then select coastal boundary. If the town is not within the coastal boundary you will not be able to select the coastal boundary map.) or the local town hall or on the "Coastal Boundary Map" available at the DEEP Store (860-424-3555 or deep.store@ct.gov).

4. **NATURAL DIVERSITY DATA BASE (NDDB) - ENDANGERED OR THREATENED SPECIES:** According to the most current "State and Federal Listed Species and Natural Communities Map", is there any activity included in, or proposed to be implemented by, your CAFO in the production area, that will be located within an area identified as a habitat for endangered, threatened or special concern species?
   ☐ Yes ☑ No Date of Map:

   If yes, complete and submit a Request for NDDB State Listed Species Review through DEEP's ezFile Portal by navigating to DEEP's website for NDDB Environmental Reviews, prior to submitting this registration. Please note NDDB review generally takes 4 to 6 weeks and may require the registrant to produce additional documentation, such as ecological surveys, which must be completed prior to submitting this registration. A copy of the NDDB Determination response letter that has not expired *must* be submitted with this completed registration. Include a copy of any mitigation measures developed for this activity and approved by NDDB. Be aware that you must renew your NDDB Determination if it expires before project work commences. For more information visit State Endangered Species Act CGS section 26-310(a), DEEP's website for NDDB Environmental Reviews or contact the NDDB at deep.nddbrequest@ct.gov.

5. **AQUIFER PROTECTION AREAS:** Is the CAFO or any portion of the CAFO located within a mapped Aquifer Protection Area, as defined in CGS section 22a-354b? ☐ Yes ☑ No

   If yes, the CAFO owner or operator shall take all necessary precautions to prevent spills or other accidental releases of chemicals or agricultural wastes to the ground and/or water. If a spill or accidental release of chemicals or agricultural wastes occurs, the CAFO owner or operator is required to report the spill to CT DEEP's 24-Hour Emergency Spill Reporting line at 860-424-3338. For more information on the Aquifer Protection Area Program visit the DEEP website at Aquifer Protection or contact the program at deep.aquiferprotection@ct.gov.

6. **CONSERVATION OR PRESERVATION RESTRICTION:** Is there any activity included in, or proposed to be implemented by the CAFO that will be located within a conservation or preservation restriction area?
   ☐ Yes ☑ No

   If yes, your Comprehensive Nutrient Management Plan must contain provisions to assure compliance with CGS section 47-42d where proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be kept on site.

Part VI: Description of CAFO Discharges and Operations

1. In the table below, list each discharge that is the subject of this application. For renewals of existing permits, label each discharge by the same discharge serial number (DSN) stated in the previous permit and provide the existing permit number. For new permits, label each discharge to a surface water consecutively starting with DSN 101 and for discharges to groundwater, label each discharge consecutively starting with DSN 301.

Discharge serial number (DSN) and existing permit number, if applicable	Source(s) of wastewater contributing to the discharge	Name of receiving surface waterbody or groundwater surface watershed	Surface water or groundwater quality classification	Geographical description of location of discharge point (e.g., 20 ft. north from Bear Bridge)
	Silage leachate & manure storage	NOT AVAILABLE		

2. Provide a brief general description of the CAFO operation and each existing or proposed discharge. For proposed new discharges, provide a timeline for initiation of the discharge(s) as well as a summary of environmental impact of the proposed discharge. _____

Part VII: Activity Specific Information

1. TYPE AND NUMBER OF ANIMALS:

Animals	No. in Open Confinement	No. Housed under Roof
☑ Mature Dairy Cows		900
☑ Dairy Heifers		800
☐ Veal Calves		
☐ Cattle (not dairy or veal calves)		
☐ Swine (55 lbs. or over)		
☐ Swine (under 55 lbs.)		
☐ Horses		
☐ Sheep or Lambs		
☐ Turkeys		
☐ Chickens (Broilers)		
☐ Chickens (Layers)		
☐ Ducks		
☐ Other: Specify		

Part VII: Activity Specific Information (continued)

2. MANURE, DIGESTATE, LITTER AND/OR OTHER WASTEWATER PRODUCTION AND USE:

a. How much manure, digestate, litter or other wastewater is generated annually by the CAFO?

Manure	8.8 m gallons tons or gallons (specify)
Digestate	tons (solids)
	gallons (liquids)
Litter	tons
Other Wastewater Specify:	gallons

b. Is manure, digestate, litter or other wastewater generated at the CAFO land applied? ☑ Yes ☐ No

If yes, indicate the total number of acres under the control of the registrant that are available for application:

acres 1300

c. Check all land application best management practice that are being implemented:

- ☐ Buffers
- ☐ Setbacks
- ☑ Conservation tillage
- ☐ Constructed wetlands
- ☐ Infiltration field
- ☐ Grass filter
- ☐ Terrace
- ☑ Other (specify): MANURE IS INJECTED INTO NO TILL FIELDS W/ DRAG LINE APPL.

d. How much manure, digestate, litter or other wastewater produced by the CAFO will be transferred to other persons annually?

Manure	N/A tons or gallons (specify)
Digestate	tons (solids)
	gallons (liquids)
Litter	tons
Other Wastewater Specify:	gallons

e. Describe alternative use(s) of manure, digestate, litter or other wastewater, if any:

SEPERATED SOLIDS ARE RECYCLED AS BEDDING FOR COWS

Part VII: Activity Specific Information (continued)

3. TYPE OF CONTAINMENT, STORAGE AND CAPACITY:

Type of Storage	Total Number of Days of Storage	Total Capacity (specify gallons or tons)
☐ Anaerobic Lagoon		
☑ Storage Lagoon		
☑ Aboveground Storage Tanks		
☐ Belowground Storage Tanks		
☑ Roofed Storage Shed		
☐ Concrete Pad		
☐ Under Floor Pit		
☐ Other: Specify:		

Total number of acres exposed to precipitation that drain to or are collected in the containment and storage structure(s) reported in the table above: acres 2-3 ACRES DRAIN INTO OUR SILAGE LEACHATE STORAGE

4. COMPREHENSIVE NUTRIENT MANAGEMENT PLAN:

a. Has the registrant attached a Comprehensive Nutrient Management Plan? ☑ Yes ☐ No
WILL BE SENT IN FROM NRCS

b. Is the registrant implementing the Comprehensive Nutrient Management Plan? ☐ Yes ☐ No

c. Has the Comprehensive Nutrient Management Plan been reviewed and signed by a Certified Agricultural Planning Specialist? NRCS ☑ Yes ☐ No

d. When was the last review or revision of the Comprehensive Nutrient Management Plan? Date:

e. If not land applying, describe alternative use(s) of manure, digestate, litter, and/or wastewater:

Part VIII: Supporting Documentation

Check the applicable box below for each attachment being submitted with this registration form. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this registration form.

☐	Attachment A:	Coastal Consistency Review Form (DEEP-APP-004), if applicable.
☐	Attachment B:	A copy of the NDDB Determination response letter that has not expired, if applicable. Include a copy of any mitigation measures developed for this activity and approved by NDDB. Do *not* submit any NDDB Preliminary Site Assessments with your registration. Be aware that you must renew your NDDB Determination if it expires before project work commences.
☐	Attachment C:	Conservation or Preservation Restriction Information, in applicable.
☑	Attachment D:	A topographic map of the geographic area in which the CAFO is located showing the specific location of the production area and one mile beyond the property boundaries of the CAFO depicting the facility, each discharge location, wells, springs, surface water bodies and drinking water wells listed in public records or otherwise known to the registrant in the map area.
☑	Attachment E:	Comprehensive Nutrient Management Plan TO BE SENT VIA NRCS
☐	Attachment F:	NetDMR Subscriber Agreement

Part IX: Registrant Certification

The registrant must sign this part. A registration will be considered insufficient without this certification.

"I have personally examined and am familiar with the information submitted in this registration, including all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

I certify that this general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of the text;

I also certify under penalty of law that I have read the General Permit for Concentrated Animal Feeding Operations issued by the Commissioner on December 6, 2022; that the discharges which are the subject of this registration are eligible for authorization under such permit; and that I will comply with all schedules and applicable requirements of such permit, including the development and implementation of a site-specific Comprehensive Nutrient Management Plan, reviewed and signed by a Certified Agricultural Planning Specialist."

Signature of Registrant	Date: 4/10/2024
Name of Registrant (print or type): Lincoln Chesmer	Title (if applicable): MANAGING MEMBER

Part X: Preparer Certification

The individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided. If the registrant is the preparer, please mark N/A in the spaced provided for the preparer.

"I have personally examined and am familiar with the information submitted in this registration, including all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

I certify that this general permit registration is on complete and accurate forms as prescribed by the commissioner without alteration of the text;

I also certify under penalty of law that I have read the General Permit for Concentrated Animal Feeding Operations issued by the Commissioner on December 6, 2022 and that the discharges which are the subject of this registration are eligible for authorization under such permit."

Signature of Preparer (if different than above)	Enter Date 4/10/2024 Date
Enter Name Lincoln Chesmer Name of Preparer (print or type)	Enter Title MANAGING MEMBER Title (if applicable)

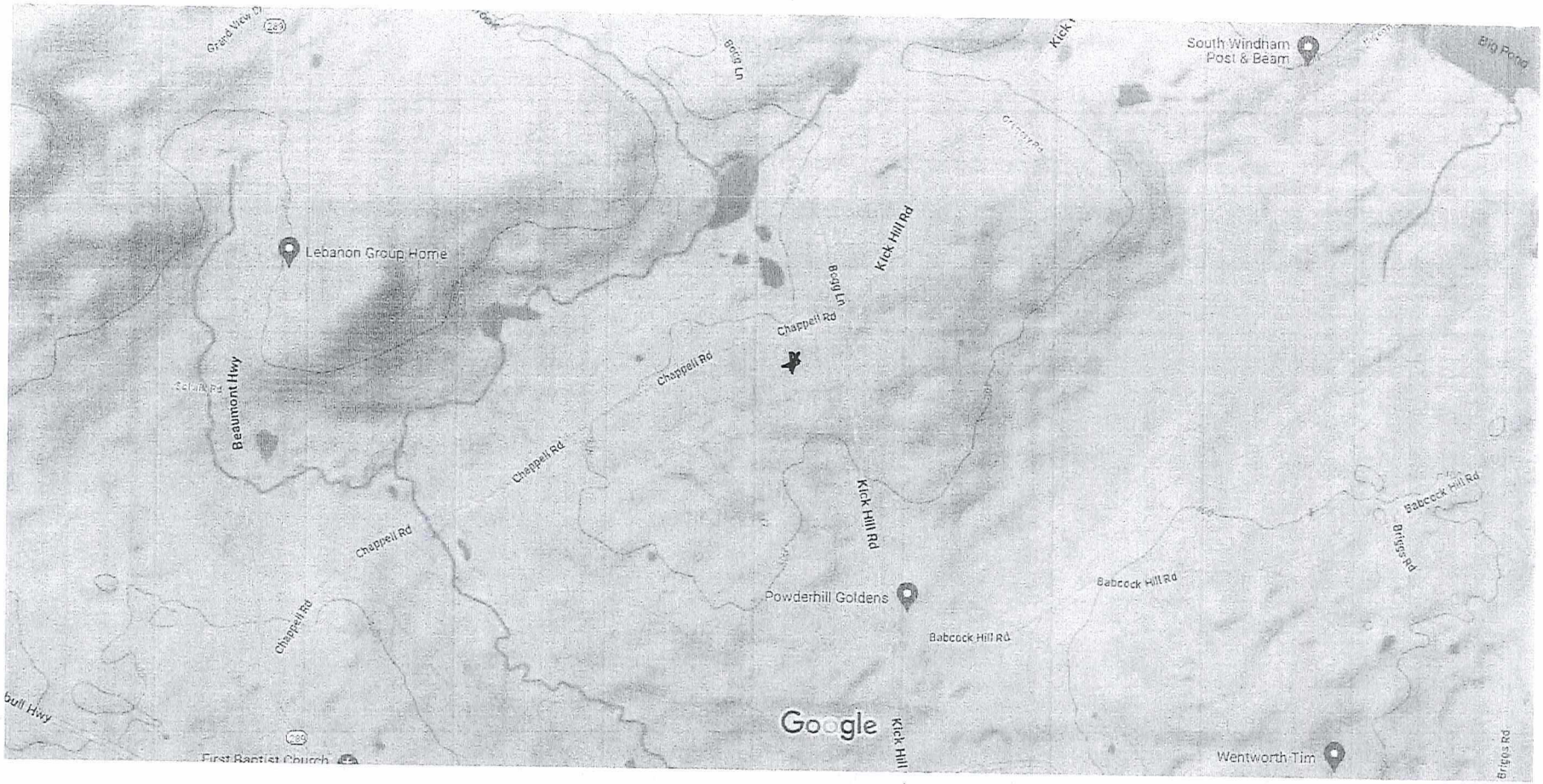
☐ Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies to this sheet. Signatures of any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.) must be included.

This completed registration form and all supporting materials (along with the fee) are to be submitted to:

Central Permit Processing Unit
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

An electronic copy of this registration and all attachments must also be submitted to: **CAFO.Coordinator@ct.gov**

Google Maps



Map data ©2024 1000 ft

Google Maps 49 Chappell Road Lebanon CT



Imagery ©2024 CNES / Airbus, Maxar Technologies, USDA/FPAC/GEO, Map data ©2024 1000 ft

USDA

United States Department of Agriculture

RECEIVED
MAY 10 2024
BUREAU OF MATERIALS MANAGEMENT
& COMPLIANCE ASSURANCE
WPED

Connecticut
Comprehensive Nutrient Management Plan
(Format v2.2)



Source: Historic Barns of Connecticut

Graywall Farm
c/o Lincoln Chesmer
49 Chappell Rd
Lebanon, CT 06249

Plan Period: Nov 2020 – Oct 2023

Plan Written/Revised:
February 2021

USDA IS AN EQUAL OPPORTUNITY PROVIDER, EMPLOYER, AND LENDER.

Sensitive data as defined in the Privacy Act of 1974 (5 U.S.C. 552a, as amended) is contained in this report, generated from information systems managed by the USDA Natural Resources Conservation Service (NRCS). Handling this data must be in accordance with the permitted routine uses in the NRCS System of Records at http://www.nrcs.usda.gov/about/foia/408_45.html. Additional information may be found at http://www.ocio.usda.gov/qi_request/privacy_statement.html.

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Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at https://www.ascr.usda.gov/filing-program-discrimination-complaint-usda-customer and at any USDA office, or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by:

(1) mail:
U.S. Department of Agriculture
Office of the Assistant Secretary for Civil Rights
1400 Independence Avenue, SW
Washington, D.C. 20250-9410

(2) fax: (202) 690-7442

(3) email: program.intake@usda.gov

USDA is an equal opportunity provider, employer, and lender.

USDA's goal is for AFO/CAFO owners and operators to take voluntary actions to minimize potential water and air pollutants from storage facilities, confinement areas, and land application areas. The objective of a CNMP is to provide AFO owners and operators with a plan to manage manure and organic byproducts by combining conservation practices and management activities into a conservation system that, when implemented, will control soil erosion and protect water and air quality. *(190-405-GM, 1st Ed., Amend. 31, Oct 2015)*

Conservation Planner

As a Conservation Planner, I certify that I have prepared the *Comprehensive Nutrient Management Plan* for technical adequacy and that the elements of the document are technically compatible, reasonable and can be implemented.

Name: Melissa (Hunt) Sutyla	
Title: CNMP Planner	
Signature: MELISSA SUTYLA (Affiliate) Digitally signed by MELISSA SUTYLA (Affiliate) Date: 2021.02.19 10:40:30 -05'00'	**Date:**

CNMP Owner/Operator

As the owner/operator of this CNMP, I, as the decision maker, have been involved in the planning process and agree that the items/practices listed in each element of the CNMP are needed. I understand that I am responsible for keeping all the necessary records associated with the implementation of this CNMP. It is my intention to implement/accomplish this CNMP in a timely manner as described in the plan.

Name: Lincoln Chesmer	
Signature:	**Date:** 2/18/2021

Technical Review for USDA NRCS

Certified Conservation Planner

As an NRCS Certified Conservation Planner, I certify that I have reviewed the *Comprehensive Nutrient Management Plan* for technical adequacy and that the elements of the document are technically compatible, reasonable and can be implemented.

Name:	**Eric Dugas**	
Title:	**Soil Conservationist**	
Signature:	ERIC DUGAS Digitally signed by ERIC DUGAS Date: 2021.02.19 10:51:32 -05'00'	**Date:**

Engineering Review

Name:	**Jim Gavin**	
Title:	**Civil Engineer**	
Signature:	JAMES GAVIN Digitally signed by JAMES GAVIN Date: 2021.02.19 11:08:17 -05'00'	**Date:**

Agronomic Review

Name:	**Jim Hyde**	
Title:	**State Agronomist**	
Signature:	JAMES HYDE Digitally signed by JAMES HYDE Date: 2021.02.19 12:17:05 -05'00'	**Date:** 2/19/2021

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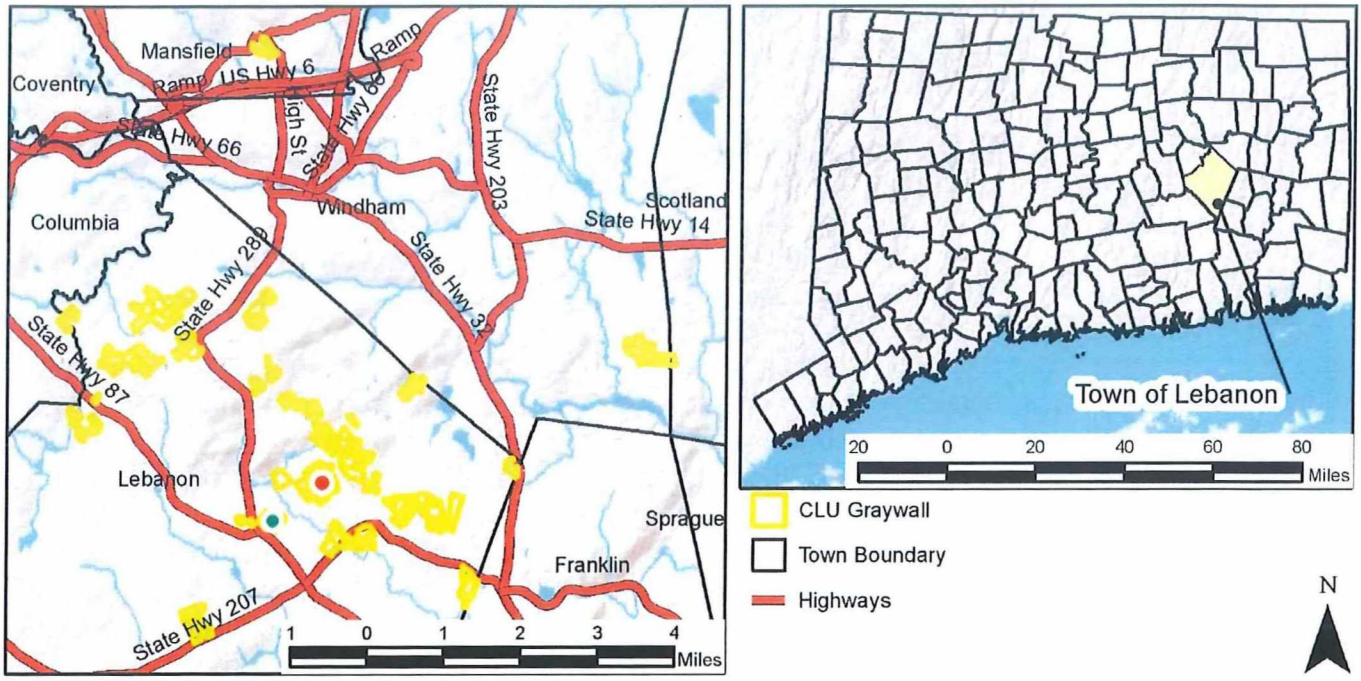
Section 1. Background and Site Information



Farm Headquarters Latitude/Longitude:

1.1. General Description of Operation

History, Management, and Goals

Graywall Farm is a large dairy owned and operated by Lincoln and Robin Chesmer, located in Lebanon, CT. The farm headquarters consists of two locations – the milkers facility and the heifer facility. The milkers facility is the main farm on Chappell Road and houses the milkers, milk parlor, and office. The Heifer facility houses the young stock (0-20 months) on Trumbull Highway. The farm contracts out its dry cows at Hills Farm in Hebron, an independent farm operation with it's own farm plan and manure management. Currently, the farm is milking approximately 850 head and manages roughly 1900 head between the milker and heifer facilities. The farm produces its own feed which is raised over 1,200 acres of cropland (700 ac corn and 500 ac grass land (acreage varies each year depending on who the operator is for rented land). The farm purchases an additional 300+ ac corn and 40 ac grass to meet feed storage goals (18 mo). The farm is progressively adding manure and animal management infrastructure to meet current environmental regulations and goals. The farm is currently working to add a second satellite storage pit to increase manure storage capacity and to incorporate a second freestall at the young stock facility to help with animal and manure management. The most recent site visit was conducted in December 2020 by USDA NRCS staff members to discuss the farm's desired changes for the operation in the upcoming years.

Soil

Soils on crop land are predominantly mapped as Woodbridge fine sandy loam (45B, 45A), 3 to 8% slopes. These soils are glacial till with a compact layer at a depth of 18-30 inches, moderate to high runoff potential, depending on soil moisture level, and area moderately well drained. Additional prevalent soils include:

- Paxton and Montauk fine dandy loams (84 B, 84C) 3 – 15% slopes, well drained till
- Canton and Charlton soils (60B) 3 – 8% slopes, well drained till

- Ridgebury, Leicester, and Whitman soils, extremely stony, poorly drained

Fields that meet highly erodible land criteria are managed according to a conservation plan. All corn fields are applied with a cover crop (winter rye) for erosion control, soil health, and to meet Farm Bill compliance for highly erodible fields.

Soil test have been completed on a majority of the fields between 2019 and 2020. Soil test showed optimum levels across all nutrients for most of the hay land. The majority of cornland is at or above optimum levels for soil test nutrients, notably phosphorus was above Optimum on most of the corn acres.

Water

Hydrology / Visual Assessment of Impacts

The main farm, young stock facility, and a majority of fields are located in watershed 011000030102 (Susquetonscut Brook) which drains into the Yantic River. The remaining crop fields are located in watershed 011000020107 (Tenmile River) which drains into the Willimantic River.

Milker Facility – Surface water at the main farm drains to the east into the adjacent brook, which then flows into the Susquetonscut Brook. The wetland just south of Chappell Road and east of the farmstead forms the headwaters of the unnamed brook. North of Chappell Road surface waters flows to the north.

Heifer Facility – Surface runoff flows to the northeast across the adjacent cropland and eventually to the Susquetonscut Brook (1,300 ft away). There is a pond 60 feet to the west of the facility, and a small pond 600 ft to the northeast, but site inspection indicated that surface runoff goes in close vicinity to the pond, but not directly into it.

Water Quality[1]

Surface waters within the vicinity of the farm are classified as Class A. Class A is defined as a potential drinking water supply; fish and wildlife habitat; recreational use; agricultural and industrial supply and other legitimate uses including navigation.

Discharges to waters in Class A are restricted to: discharges from public or private drinking water treatment systems, dredging and dewatering, emergency and clean water discharges. Groundwater quality in both watersheds is designated Class GA. The site is not in an existing public drinking water supply watershed. There are no mapped potential high yield stratified drift aquifers in the vicinity. Groundwater Class GA is defined as existing private or potential public or private supplies of water suitable for drinking without treatment; baseflow for hydraulically connected surface water bodies.

Discharges restricted to: as for GAA and discharge from septage treatment facilities subject to stringent treatment and discharge requirements, and other wastes of natural origin that easily biodegrade and present no threat to ground water.

Water Supply

[1] Obtained from the CT DEEP Fact Sheet: *Water Quality Standards and Classifications (December 2016)*

Milker Facility – The water supply for the farm is supplied by eight wells. Three dug wells are near the wetland to the east of the barns (toward Kick Hill Road). Five drilled wells are (1) near western property line next to the neighbors, (2) by the fir tree near farm office, (3) between barns 2 and 3, (4) between barns 3 and 4, (5) south side of barn 4. Water is supplied to cattle through multiple waterers located within the free stall barns. See "Existing Infrastructure Map" for exact locations of the wells.

Heifer Facility – The water supply for young stock is supported by one well located in the northwest corner, between the housing facility and the adjacent pond. Multiple waterers located throughout the youngstock facilities provide drinking water for the animals.

Air

The main concern for odors is the waste storage facilities during agitation as they are emptied. Winds from the northwest could potentially carry odors and particles towards the houses on Kick Hill Road. In 2007, a windbreak planting was established on the northwest side of the earthen pit. Windbreaks help redirect the air flow up and over the waste storage. Plantings on the opposite side of manure storage were established and act as a biofilter to help trap particles and odor producing compounds. The farm may want to consider applying these practices to the other manure storage and planned manure storage locations.

Plants

The farm currently raises approximately 700 acres of corn silage and 500 acres of grass. A cover crop, typically winter rye, is applied to all corn land following harvest. Prior to planting, cover crop is terminated using herbicide application. The farm is producing approximately 17,000 tons of corn silage each year (avg 25 tons/acre). Hay fields are utilized for haylage and produce (3 tons DM/acre) with 3 cuttings. Manure is applied to all cropland using a dragline spreading at a rate of (7,500 gal per acre), hired liquid spreader (Spielman Farms 7,500 gal per acre), solid truck spreader (10 tons per acre), and solid box spreader (10 tons per acre).

The farm is testing ensiling the cover crop (rye) in 2021. A good stand of drilled rye came up in fall 2020. Some of the late planted fields (200 ac) will be harvest for rye and other fields cover crop will be terminated in mid-April to try for an early May corn planting.

Animals and Infrastructure

The main farm houses approximately 950 head of dairy cattle (majority is Holstein). The cows are housed in four free stall barns. Barn 1 contains pre-fresh and treated dry cows (~120), and a bedded pack area for calving (~10). Barn 2 contains the milking parlor and holding area, and the first calf heifers and fresh cows (~140). Barn 3 is for low producers (~350), and barn 4 is made up of half low and half high producers (~350)(See "Existing Infrastructure Map" for location").

Free stalls are bedded with recycled manure solids, which reduces the total manure that needs to be stored with no additional bedding material. After screw press separation, approximately 75% of the resulting separated solid is reused as bedding. Straw is used for calving pens only (~10 head) in barn 1. Both the freestalls (~120 head) and the calving pen manure is bucketed daily to the adjacent solid storage shed. Manure from barns 2-4 is pumped (barn 3 gravity fed) into a holding tank. Waste from the holding tank is pumped to the solid separator. Solids fall out the end of the screw press and then conveyed to the solids storage shed by a blower system. Liquids from the manure separator flow to a pump chamber and are pumped to either

of two liquid manure storage facilities (above-ground tank or in-ground, lined lagoon). The hoppers are designed so liquids can be pumped back through the system if needed, to help liquify or flush manure if it becomes too solid to flow from the barn to the separator. A roofed facility was constructed in 2010 to dry and store separated solids, eliminating runoff associated with the stacked manure. A concrete pad was enlarged near the solids separator in 2006. In 2010 a slotted curb was installed to reduce the amount of solids washed to the settling basin.

Heifer Facility – The young stock are grouped by age in four locations. The calf area consists of (~100) calf hutches. Calves stay in the hutches from 0 – 8 weeks of age. After 8 weeks calves move to the newly constructed bedded pack (2019). The bedded pack holds (~120) calves age 8 weeks – 4 months. At 4 months of age, animals are moved to the open-air facility, which holds (~150) animals from age 4-10 months. The free-stall is the final area cattle stay until moved to the home farm or milking facility. The free-stall holds cattle (~450) 11 – 21 months of age, through first pregnancy until three weeks before birthing.

Calf hutches are bedded with straw and sawdust. Used bedding is scraped into the dry stack at the end of the free stall every 6-8 weeks. The bedded pack facility is bedded with sawdust (approximately 30 yards/week). Bedding is removed every 6-weeks and land applied. The open-air facility is bedded with recycled bedding. Used bedding is scraped and stacked within the dry stack storage at the end of free stall every 6 weeks. The free stall is deep bedded with recycled bedding (60 yards/week). The free stall has a short-term solids storage facility at the end of the alley. It was designed for three months storage (5% of solids from free stall), with a slotted grate at the end of the scrape alley to capture liquids and continue pushing solids into the stack below. The liquid or slurry portion of the manure is gravity fed through a pipe to a 183,000 gallon, in-ground concrete storage. See "Existing Infrastructure Map" for locations.

The majority of dry cows (~100) are at Hills Farm in Hebron, CT. Approximately 30 yards of recycled bedding is exported weekly to Hills Farm for bedding purposes. The Hills Farm manages all other aspects of feed and manure management under their own farms CNMP.

Manure and Storage

Milker Facility – The main farm has a high-density polyethylene lined earthen storage lagoon located on the south end of the farm. The pit was installed in 1998, the liner has since been inspected in 2015 and deemed in acceptable condition, after one patch was made for a tear due to human error. The in-ground lagoon stores the liquid portion of the separated waste and has a capacity of approximately 1.2 million gallons.

A Slurrystore storage tank was built in 2005 located just south of the barns. The capacity of the tank is approximately 1.4 million gallons. Liquids from the separator are also pumped to this storage facility. A valve near the manure separator can direct separated liquids to whichever storage is available or needed.

A manure solids stack is located within the solids shed next to the solids separator. The recycled solids are removed on a weekly basis, or as needed, for bedding use at the home farm (Milkers Facility), young stock farm (Heifer Facility), and Hills Farm. Excess solids (approximately 25% of separated solids) are land applied.

Heifer Facility – A concrete storage facility was constructed in 2011 as a solution for the liquid portion of the gravity separated manure which drops from the grates at the end of the alleys.

The storage facility is a 40' in diameter round concrete tank that is 12' deep. The storage size is approximately 183,000 gallons. This currently allows for 3 – 4 weeks of storage (420 head, 10-20 mo old).

The manure from the open-air facilities is handled as a solid and taken directly to the solid manure storage at the end of the free stall barn. Manure from calf hutches is also stored within the solid storage. On occasion, the solids pile will escape or seep from the solids storage area and move to the corn field north of the farm yard. Sawdust berms will be dropped in front of the storage to capture/contain the manure.

Due to the low storage volume for liquids/slurry on the young stock facility, an additional satellite storage was installed in 2015 at the nearby Babcock Hill property (Briggs Rd) to provide additional storage (830,000 gallons).

Overall there is still a need for additional manure storage (liquids and solids) on the farm. Plans for a second satellite storage lagoon at the Walden Hill property would help increase storage capacity among the farm's two animal facilities. And long-term plans for solids composting will help manage both manure solids and a separate section for mortality management. See "Existing Manure Table" below.

Existing Manure Farm Totals	
Liquids	**Solids**
Liquid Volume Managed (6 mo):	Solid Storage Needed (6 mo):
Manure 6,151,500 gal	Manure 142,812 cu ft (3,034 ton)
Leachate/Runoff 2,525,700 gal	
<u>Liquid Storage Available:</u>	<u>Solids Storage Available:</u>
Milker Slurrystore Tank: 1.4 million gal	Milker Shed: 9,000 cu ft (est)
Milker Lagoon: 1.2 million gal	Heifer Shed: 9,000 cu ft (est)
Briggs Rd Lagoon: 830,000 gal	
Heifer Tank: 188,000 gal	
Total Manure Storage: 3,618,000 gal	
Leachate Pond: 1.5 million gal	
Total: 3,618,000 gal = 3.6 mo storage	Total Solids Storage 18,000 cu ft = 0.7 mo
Need: 2,534,000 gal more for 6-month manure storage and 1,026,000 gal more for 6-month leachate pond storage -or- alternate leachate system	Need: 3,055 ton more for 6-month storage

Storage	Waste Volume (6 month)	Stormwater Volume* (6 month)	Total Volume (6 month)	Existing

	(million gallons)			
Milker Slurrystore	1.1	0.3	1.4	1.4
Milker Lagoon	0.7	0.5	1.2	1.2
Heifer Slurry tank	0.2	0.02	0.2	0.2
Briggs Rd Lagoon	0.3	0.5	0.8	0.8
Walden Lagoon	0.5	0.4	0.9	
Milker Slurrystore (add'l ring)	0.3		0.3	
New Lagoon	1.3		1.3	
Silage Pond**	1.2	1.3	2.5	1.5
Totals	5.6	3.0	8.6	5.1

'* Stormwater Volume = 25-yr storm onto manure storage surface area + precip/evap + freeboard (in-ground lagoons only)
'** Silage Pond = 100% silage leachate + 6 mo. surface area runoff; 25-yr runoff from pad is included in Stormwater (25-yr runoff + 25-yr on storage surface + precip/evap + freeboard)

The Existing Manure Farm Totals table describes the total manure produced on the farm (main farm and youngstock facility) for both liquid and solid form. The total liquid manure produced on the farm is 9,594,000 gal/yr. The total solid manure produced on the farm is 310,897 cu ft/yr. Existing available storage for liquid manure is 3,618,000 which provides approximately 4.5 months of storage. An additional 1,179,000 gallons of storage is needed to reach 6 months of storage capacity for the farm. Existing manure storage for solid manure is 18,000 cu ft which provides 1.4 months of storage. An additional 3,055 tons of storage is needed to reach 6 months of storage capacity for the farm.

Animal Yards and Exercise Areas

The only partial roofed facility within the farm is the open-air facility within the young stock area. The open-air facility has roofed free-stalls, but the feed alleys are not under roof. Runoff from the alleys flows north into a surface manure holding area. All manure collected from the area is stored in solid manure storage at the end of free-stall building.

Animal Feeds and Silage Leachate

All feeds are stored at the home farm, silage corn and haylage are stored on an asphalt pad and covered with plastic to exclude rain water. Silage bunkers have no walls to allow for access from all sides. Commodity feeds are stored in three bulk feed bins located adjacent from the silage bunkers. Feed for the youngstock is trucked to the facility in a mixer truck with side discharge. No feed storage is currently needed at the youngstock facility. All surface water runoff from the feed area is directed to the silage leachate collection system.

The CT DEEP indicated that runoff from the silage bunker area was having a negative impact on the near by brook. The farm installed a 1.5 million gallon, unlined, earthen, leachate/stormwater collection system and settling system designed by a local engineer with input from the CT DEEP in 2010. The system consists of two settling basins and a large

storage pond. All runoff from the silage pad area is collected and stored. The earthen contaminated pond collects the storm flows and helps dilute the silage leachate. The hoppers just before the ponds contain sediment in leachate, which is cleaned regularly. The diluted leachate from the second settling pond is spread onto crop fields using the dragline system.

Milkhouse Waste

Cows are milked four times a day (estimated water usage is 4,000 gallons per day), all milkhouse wastewater is pumped to the waste storage tank that feeds the solids separator and is mixed with the other wastes prior to being pumped to the separator.

1.2. Natural Resource Concerns

General Concerns: Potential contaminants of surface water and ground water include nutrients (especially nitrogen and phosphorus), free ammonia, sediments, oxygen demanding substances, pathogens and other infectious organisms, heavy metals, hormones, antibiotics, and other potentially toxic compounds such as cleaning agents.

Specific Concerns

1. Soil Erosion
    a. Stormwater is running from the larger young stock facility area, causing erosion in the corn field north of the freestall barn.
2. Water Quality
    a. Current mortality composting area is on bare ground and under no cover causing concern for ground water and nearby surface water quality.
    b. Currently the farm does not have enough manure storage, causing risk of water quality concerns if storages were to overflow.
    c. Manure liquids will leach from solid storage at young stock facility causing water quality concerns.
3. Air Quality
    a. Odor concerns in surrounding areas near satellite storage pits during agitation. Agitating the manure causes odor which may cause complaints from nearby neighbors.

Section 2. Farmstead (Production Area) and Waste Storage

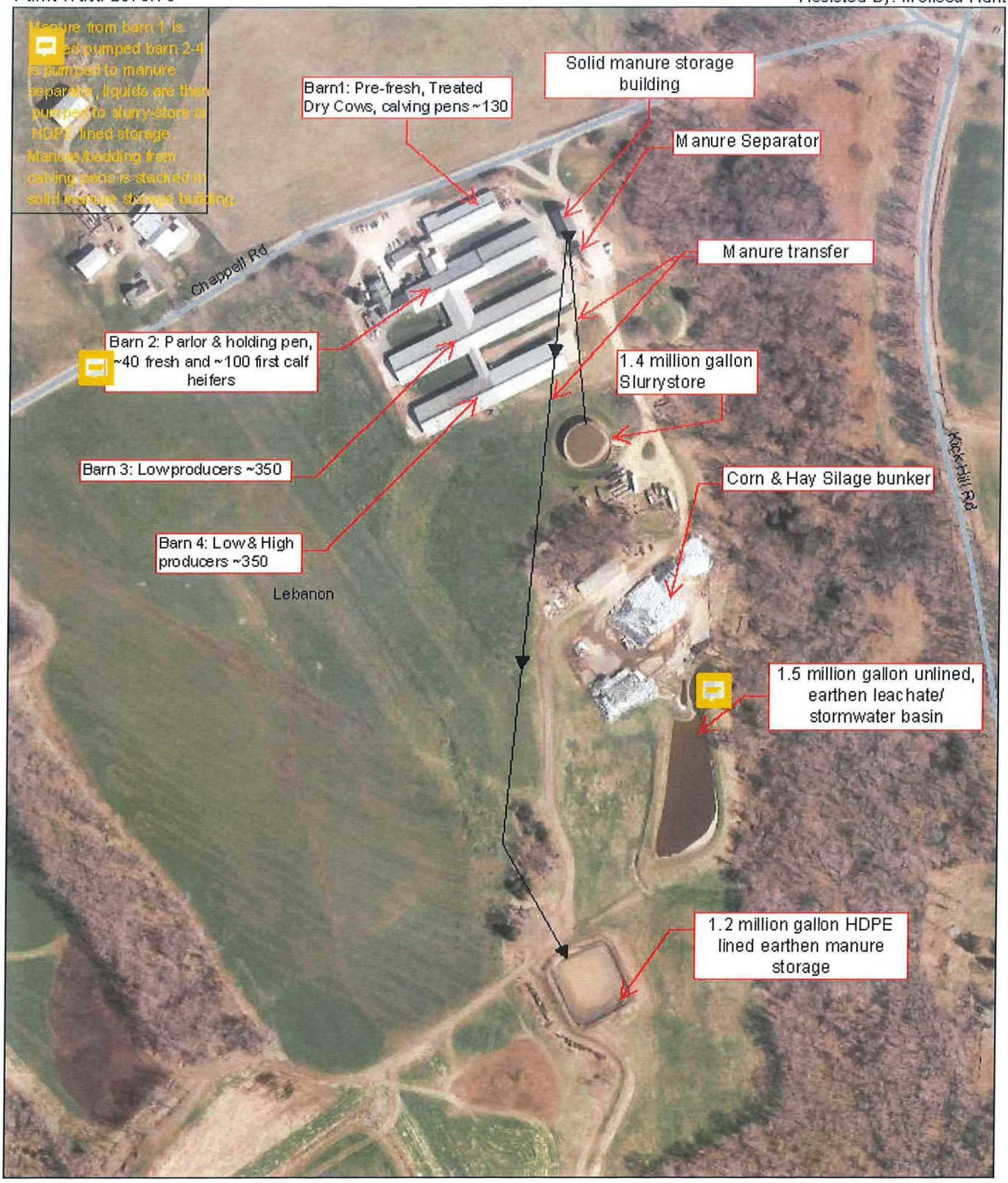
2.1. Maps of Farmstead - Existing and Planned Conservation Practices

Existing Infrastructure/ Animal Locations Map: Home Farm

Date: 10/30/2020

Customer(s): Graywall Farms
Farm/Tract: 2079/76

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,000

190 0 190 380 570 760 Feet

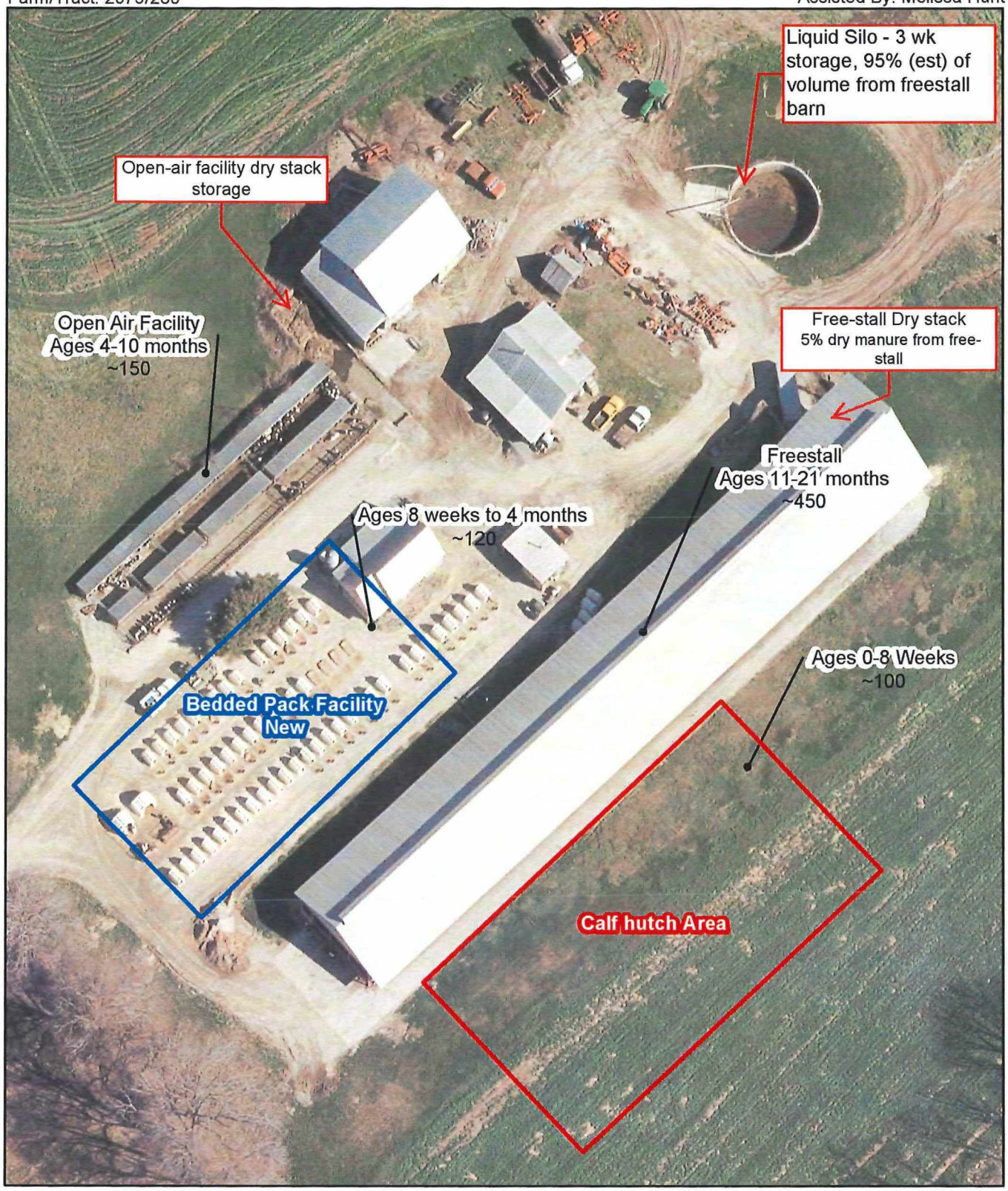
N

Existing Infrastructure/ Animal Locations Map: Young stock Facility

Date: 10/30/2020

Customer(s): Graywall Farms
Farm/Tract: 2079/280

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:750

30 0 30 60 90 120 Feet

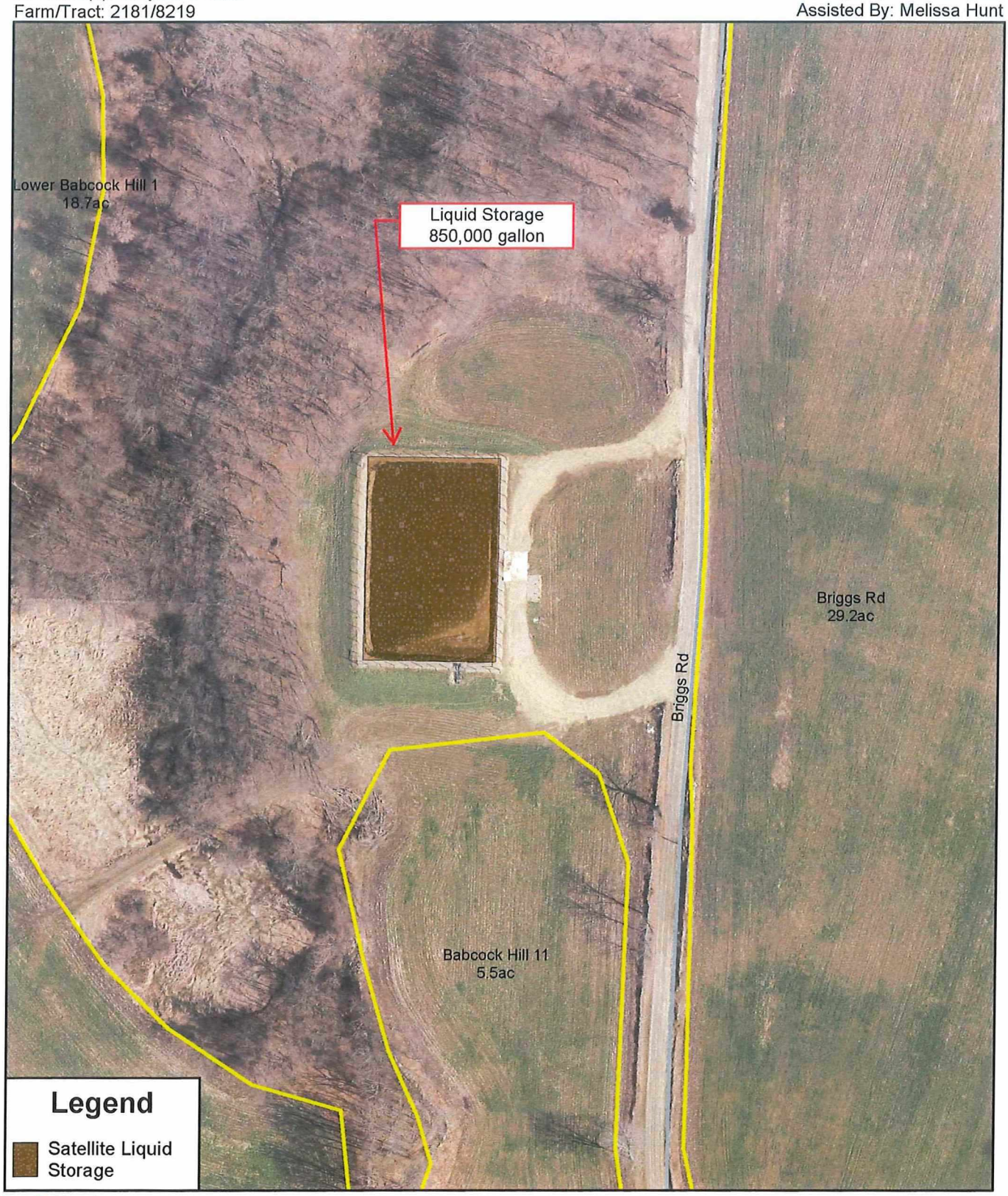
N

Existing Satellite Storage: Briggs Rd

Date: 11/17/2020

Customer(s): Graywall Farms
Farm/Tract: 2181/8219

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:1,500

70 0 70 140 210 280 Feet

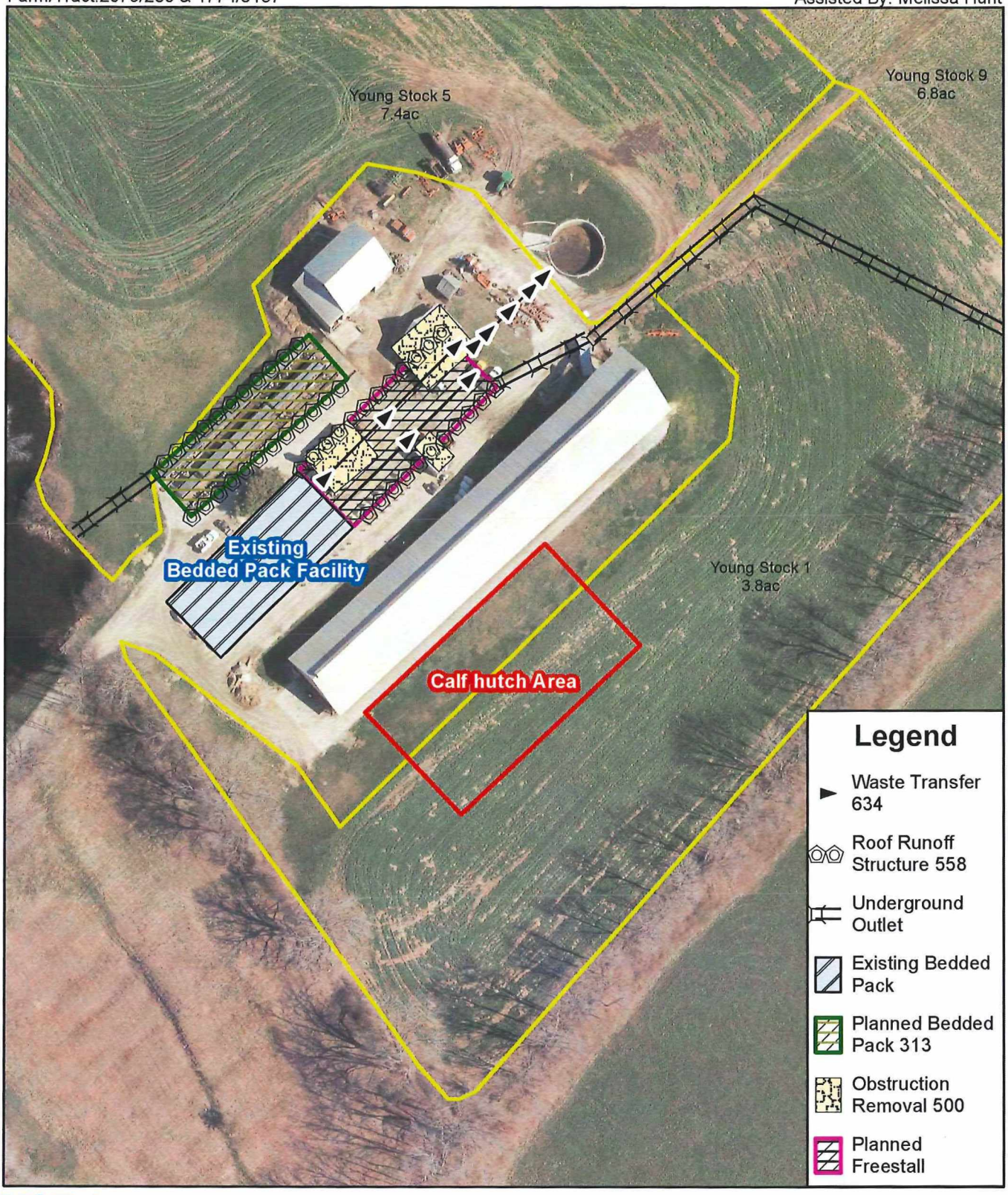
N

Planned Practice Map: Young Stock Facility

Date: 12/09/2020

Customer(s): Graywall Farms
Farm/Tract:2079/280 & 1774/8157

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:1,250

60 0 60 120 180 240 Feet

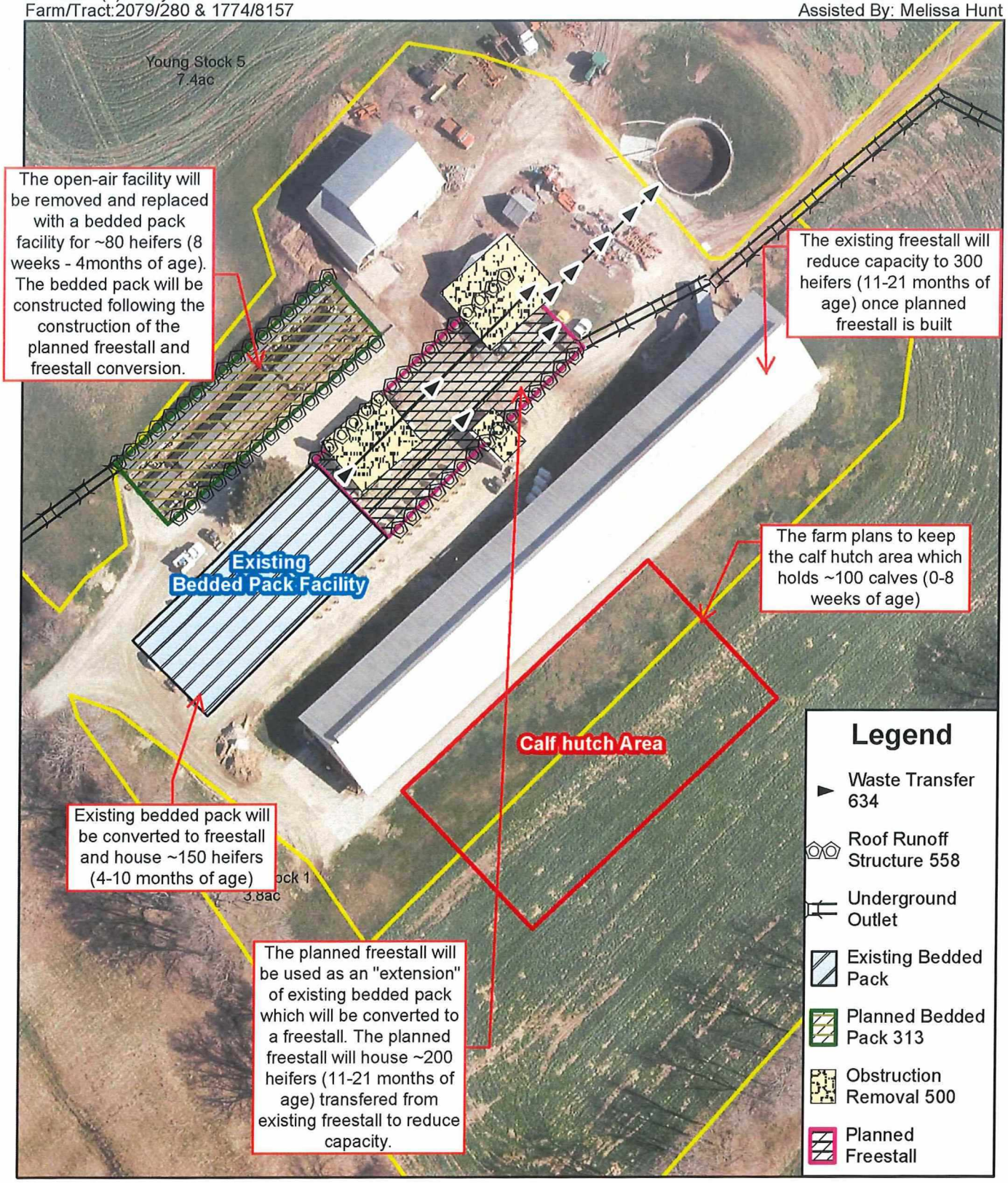
N

Planned Practice Map: Young Stock Facility

Date: 12/09/2020

Customer(s): Graywall Farms
Farm/Tract:2079/280 & 1774/8157

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:900

40 0 40 80 120 160 Feet

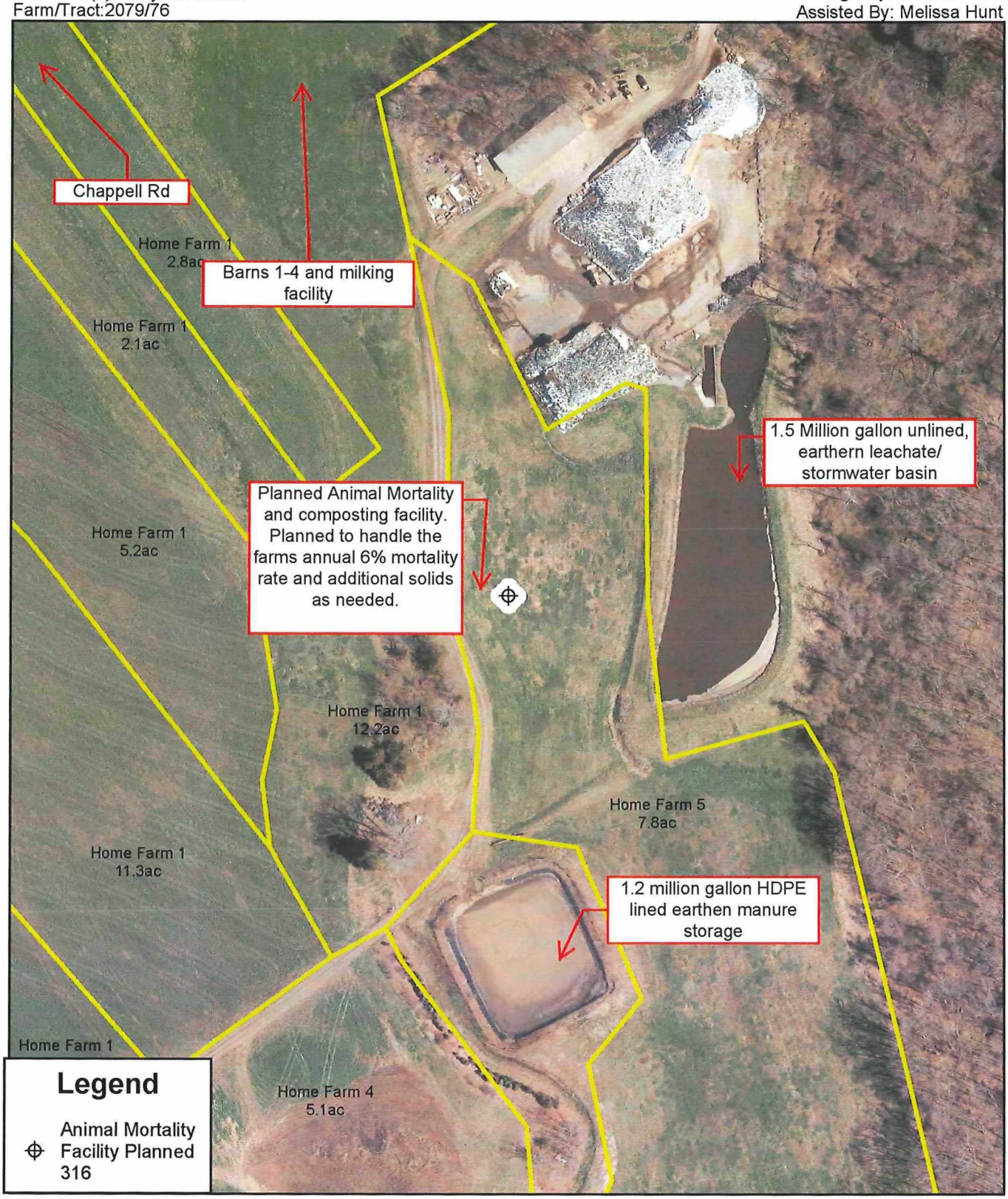
N

Planned Practice Map: Home Farm

Date: 12/09/2020

Customer(s): Graywall Farms
Farm/Tract:2079/76

Agency: USDA NRCS
Assisted By: Melissa Hunt



Legend

Animal Mortality Facility Planned 316

USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,000

90 0 90 180 270 360 Feet

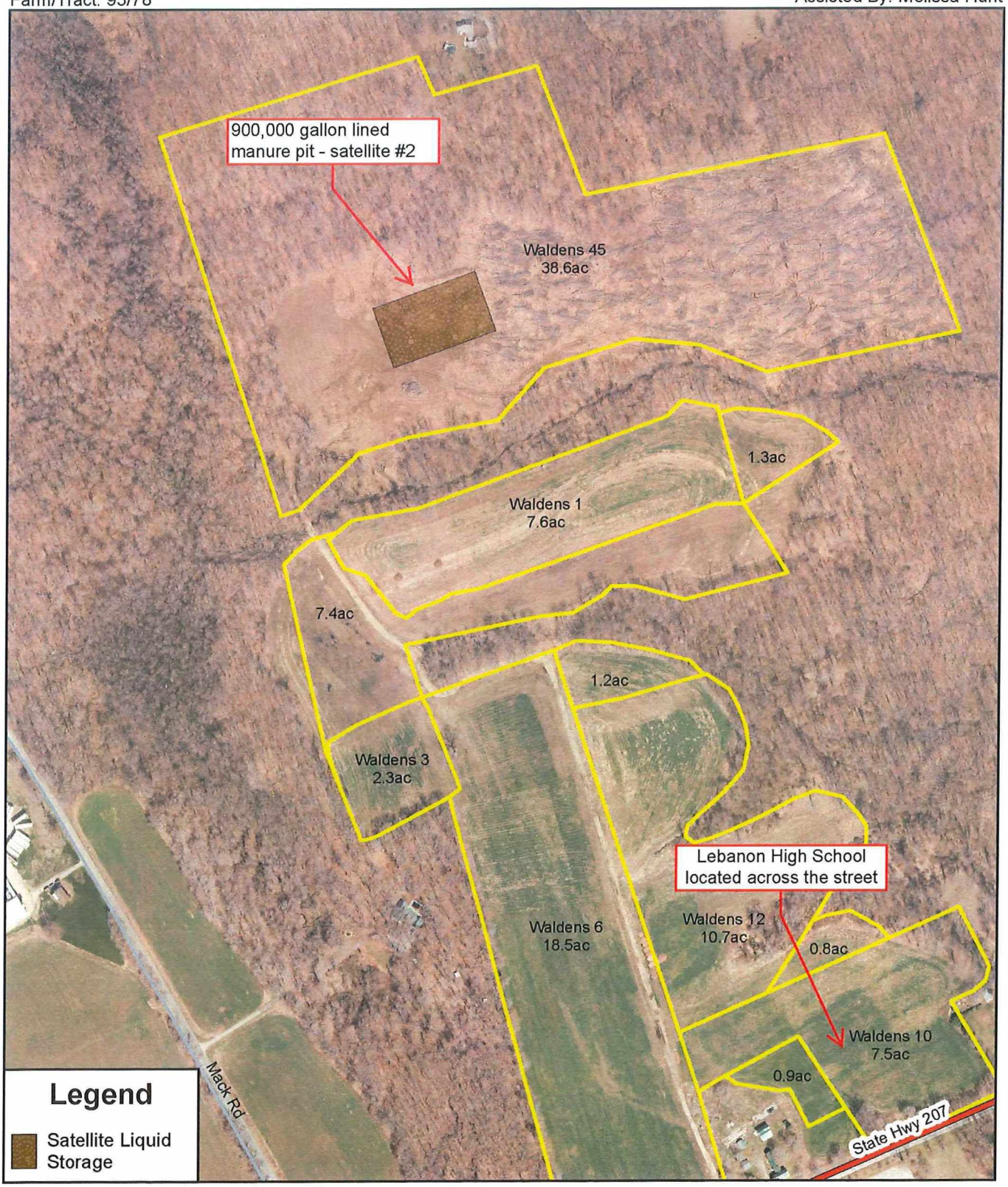
N

Planned Practice Map: Satellite Storage_Walden

Date: 11/17/2020

Customer(s): Graywall Farms
Farm/Tract: 93/78

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,000

240 0 240 480 720 960 Feet

N

2.2. Farmstead Conservation Practices – Record of Decisions

Conservation Practice Name/Practice Code

Conservation Practice	Tract # / Field #	Year of Installation
1. Additional Manure Storage **Waste Storage Facility (313)** An agricultural waste storage impoundment or containment made by constructing an embankment, excavating a pit or dugout, or by fabricating a structure. Construct an in-ground lined storage (satellite pit) at the Walden field location to provide additional manure storage for the home farm, which is currently in need of additional storage. The waste storage will be sized for 6 - months of storage, 900,000 gallons, and 12' depth. Manure will be transferred to the satellite via tanker trucks from the youngstock facility. Walden location has approximately 90 acres of cornland which can sustain the planned manure volumes, spreading at a rate of 10,000 gallons/acre using the dragline (as long as nutrient levels do not reach excessive levels). The waste storage facility will require engineering designs specific to the farm and location. Other practices may be needed pending engineering assessment. O&M: • Inspect after significant storm events and at least annually to identify repair and maintenance needs. • Follow your comprehensive nutrient management plan. • Do not dispose of animal mortality, greases, syringes, human wastes, or other wastes in the storage facility. • Inspect structure often for separations and/or cracks which would indicate potential failure. Repairs should be made immediately. A thorough inspection should be made each time the storage facility is emptied. • Inspect haul roads and approaches to and from the storage facility to determine the need for gravel or other stabilizing materials.	Walden Hill	2021
2. Mortality Management **Animal Mortality Facility (316)** An on-farm facility for the treatment or disposal of animal carcasses due to routine mortality. The facility is intended to reduce pollution impacts to surface water and groundwater resources, reduce the impact of odors, and decrease the spread of pathogens.	Milking Facility	2028

Conservation Practice	Tract # / Field #	Year of Installation
Construct an **animal mortality facility (316)** to handle the farms 6% mortality rate and any additional solids within the youngstock facility and home farm. The planned facility will consist of **subsurface drainage (606)** to divert excess ground water away from the foundation. **Roofs and covers (367)** should be constructed to exclude "clean" rainwater and minimize contaminated runoff. **Roof runoff structures (558)** will be applied to the facility to transport rainwater via **underground outlet (620)** to a **lined waterway or outlet (468)**. These structures will be sized to accommodate the depth and velocity of rainwater runoff and subsurface water to discharge uniformly across a suitable area. A **heavy use area protection (561)** should be installed as a equipment access area for turning or adding to compost and prevent ground surface leaching in loading area. O&M: • Incorporate a recipe of ingredients which gives the ingredients quantities and layer/mixing sequence. • The initial compost mix shall result in a carbon-to-nitrogen (C:N) ratio between 25:1 and 40:1. Compost with a lesser C:N ratio can be used if nitrogen mobilization is not a concern. • Store a dependable source of carbonaceous material with high C:N ratio to mix with nitrogen-rich waste materials. • Add bulking materials to the mix as necessary to enhance aeration. The bulking material may be the carbonaceous material used in the mix or a nonbiodegradable material that is salvaged at the end of the compost period. Make provision for the salvage of any nonbiodegradable material used in the composting process. • Develop a mix that encourages aerobic microbial decomposition and avoids nuisance odors. • Maintain adequate moisture in the compost mix throughout the compost period within the 40 -55% (wet basis). Prevent excess moisture from accumulating in the compost in high precipitation climatic regions. • Closely monitor temperatures above 150°F. Take action immediately to cool piles that have reached temperatures above 165°F. If the pile is too hot, turn it to aerate the pile and release heat build-up.		

Conservation Practice	Tract # / Field #	Year of Installation
• The frequency of turning/aeration shall be appropriate for the composting method used, and to attain the desired amount of moisture removal and temperature control while maintaining aerobic degradation. • The operation and maintenance plan shall state that composting is a biological process that needs monitoring and management throughout the composting period to insure proper composting processes. The operation may need to undergo some trial and error in the start-up of a new mortality composting facility. Manage the compost piles for temperature, odors, moisture, and oxygen, as appropriate. Test the finished compost as appropriate to assure that the required decomposition has been reached.		
3. ***Freestall Barn with waste transfer*** Construct a freestall barn at the youngstock facility for 340 heifers purposed as a confinement area and addition to the existing bedded pack (which will be converted to a freestall). The facility will include a feed alley with a **waste transfer (634)** system where manure and bedding can be scraped then piped to existing manure storage tank. Recycled manure solids will be used as bedding for cattle at an estimate 20lbs/1,000lb animal unit. Construct an **access road (560)** to allow for equipment and maintenance to freestall. The planned facility will consist of **subsurface drainage (606)** to divert excess ground water away from the foundation. **Roofs and covers (367)** should be constructed to exclude rainwater and minimize contaminated runoff. **Roof runoff structures (558)** will be applied to the facility to transport rainwater via **underground outlet (620)** to a **lined waterway or outlet (468)**. These structures will be sized to accommodate the depth and velocity of rainwater runoff and subsurface water to discharge uniformly across a suitable area. **Watering facilities (614)** are to be placed within the planned facility to provide clean drinking water as needed to milking herd within planned freestall. Construct a **livestock pipeline (382)** to convey clean water from **water well (642)**. O&M: • Read the engineering operation and maintenance that is provided with the designs. The O&M should be consistent	Heifer Facility	2022

Conservation Practice	Tract # / Field #	Year of Installation
with the purposes of the practice, its intended life, safety requirements, and the criteria for its design. • Waste storage facility is planned for 6- month storage spread on fields according to the nutrient management plan. • Inspect after significant storm events and at least annually to identify repair and maintenance needs. • Follow your comprehensive nutrient management plan. • Inspect structure often for separations and/or cracks which would indicate potential failure. Repairs should be made immediately. A thorough inspection should be made each time the storage facility is emptied. • Inspect haul roads and approaches to and from the storage facility frequently to determine the need for gravel or other stabilizing materials. • All gates should be inspected periodically (minimum of 2 times per year) to make sure they are functional, structurally sound, and are not cracked, broken, and/or a safety hazard to the operator or the animals. • Include a provision for emergency removal and disposition of liquid waste in the event of an unusual storm event that may cause the WSF to fill to capacity prematurely.		
4. Bedded Pack Facility **Waste Storage Facility (313)** Construct a **waste storage facility (313)** to facilitate a bedded pack system for young heifers currently housed in open-air facility. The bedded pack facility is purposed as a confinement area for cattle to reduce soil and water quality concerns from current housing area. It will include a feed alley with a **waste transfer (634)** system where manure and bedding can be scraped and hauled to existing manure storage facility. Sawdust will be used as bedding for cattle at an estimated 10lbs per cow per day. The facility will be emptied of manure every 6 months for land application on crop fields. The alley should be scraped daily or after each feeding once the herd is locked onto the bedded pack area. The planned facility will consist of **subsurface drainage (606)** to divert excess ground water away from the foundation. **Roofs and covers (367)** should be constructed to exclude "clean" rainwater and minimize contaminated runoff. **Roof runoff**	Heifer Facility	2024

Conservation Practice	Tract # / Field #	Year of Installation
structures (558) will be applied to the facility to transport rainwater via **underground outlet (620)** to a **lined waterway or outlet (468)**. These structures will be sized to accommodate the depth and velocity of rainwater runoff and subsurface water to discharge uniformly across a suitable area. **Watering facilities (614)** are to be placed within the planned facility to provide clean drinking water as needed to each animal group within the bedded pack. Construct a **livestock pipeline (382)** to convey clean water from existing well. O&M: • Read the engineering operation and maintenance that is provided with the designs. The O&M should be consistent with the purposes of the practice, its intended life, safety requirements, and the criteria for its design. • Regular bedding additions to the pack with absorbent material such as woodchips, sawdust, straw, compost or similar products sufficient to keep the animals clean and dry. • Bedded pack and dry stack are planned for 6-month storage. • Land apply manure when storages reach capacity following the nutrient management plan. • Inspect after significant storm events and at least annually to identify repair and maintenance needs. • Do not dispose of animal mortalities, greases, syringes, human wastes, or other wastes in the storage facility. • Inspect structure often for separations and/or cracks which would indicate potential failure. Repairs should be made immediately. A thorough inspection should be made each time the storage facility is emptied. • Inspect haul roads and loading areas to and from the storage facility frequently to determine the need for gravel or other stabilizing materials. • All gates should be inspected periodically (minimum of 2 times per year) to make sure they are functional, structurally sound, and are not		

Conservation Practice	Tract # / Field #	Year of Installation
cracked, broken, and/or a safety hazard to the operator or the animals. • Develop and follow an emergency action plan in case of structural failures.		

Planned Manure Management

Planned Animal Numbers/Locations:

Animal ID	Weight	# of Animals	Bedding	Animal Location
Milkers	1500	850	20 lbs/day/animal Recycled Bedding	Barns 2-3-4
Pre-Fresh	1600	120	20 lbs/day/animal Recycled Bedding	Barn 1
Cows on Pack Barn #1	1600	10	22 lbs/day/animal Straw	Barn 1
Large Heifers (10-20 mo)	800	300	20 lbs/day/animal Recycled Bedding	Heifer Freestall 1 (existing)
Small Heifers (4-10 mo)	360	340	20 lbs/day/animal Recycled Bedding	Heifer Freestall 2 (new)
Weaned Calves (2-4 mo)	225	80	10 lbs/day/animal Sawdust	Bed Pack (new)
Newborn Calves (0-2 mo)	150	100	8 lbs/day/animal Sawdust + Straw	Hutches

The Existing Manure Farm Totals table describes the total manure produced on the farm (main farm and youngstock facility) for both liquid and solid form. The total liquid manure produced on the farm is 9,594,000 gal/yr. The total solid manure produced on the farm is 310,897 cu ft/yr. Existing available storage for liquid manure is 3,618,000 which provides approximately 4.5 months of storage. An additional 1,179,000 gallons of storage is needed to reach 6 months of storage capacity for the farm. Existing available storage for solid manure is 18,000 cu ft which provides 1.4 months of storage. An additional 3,055 tons of storage is needed to reach 6 months of storage capacity for the farm.

<u>New Storages/Additions Planned:</u>
Walden Lagoon: 900,000 gal

Existing Slurrystore at home farm – addition of new ring (5 ft): 280,000 gal
Total New Storage: 1,180,000 gal

Manure from the heifer slurry store will be transferred to the Walden satellite storage facility on a monthly basis to reduce risk of overflow. The manure from slurrystore at home farm will be transferred to the manure lagoon, once the lagoon reached capacity the manure will be transferred to Briggs Rd satellite storage. Excess solids from both the home farm and youngstock solid storage facilities will be transferred to the planned composting facility.

All NRCS conservation practices shall be installed, operated and maintained according to NRCS conservation practice standards and associated technical specifications.

2.3. Manure Storage Information

Notable changes from existing infrastructure includes:

- Adding a 5th ring to the Milkers Facility Slurry store, increasing capacity from the existing 1.4 million gallon to a planned 1.7 million gallon capacity.
- Adding the Walden Lagoon for 900,000 gal additional capacity
- Adding the Compost Building for both Mortality Management and the balance of 6 months storage capacity for solid manures generated at both the Milker and the Heifer facilities.

Storage ID	Type of Storage	Pumpable or Spreadable Capacity	Annual Manure Collected	Maximum Days of Storage
Milkers - Lagoon	Earthen storage	1,200,000 gal	0 gal	183
Milker - Slurrystore	Outside prefab liquid storage	1,700,000 gal	7,954,000 gal	183
Heifer - Slurry tank	Outside prefab liquid storage	112,800 gal	1,640,000 gal	10
Milker - Solids Shed	Dry stack	202 tons	6,752 tons	14
Heifer - Solids Shed	Dry stack	150 tons	838 tons	65
Briggs Road Lagoon	Lagoon	830,000 gal	0 gal	183
Walden Lagoon	Lagoon	900,000 gal	0 gal	183
Compost Building	Composter	3,100 tons	0 tons	183
Silage Leachate Pond	Outside prefab liquid storage	1,500,000 gal	2,531,000 gal	216

2.4. Animal Inventory

Animal Group	Type or Production Phase	Number of Animals[a]	Average Weight (lbs)	Confinement Period	Manure Collected (%)[b]	Manure Storage
Milkers - Sep Solids	Milk cow (dairy)	850	1,500	Jan Early - Dec Late	10	Milker - Solids Shed
Milkers - Sep Liquid	Milk cow (dairy)	850	1,500	Jan Early - Dec Late	90	Milker - Slurrystore
Cows (calf) pack	Milk cow (dairy)	10	1,600	Jan Early - Dec Late	100	Milker - Solids Shed
Pre-Fresh Cow	Milk cow (dairy)	120	1,600	Jan Early - Dec Late	100	Milker - Solids Shed
Heifers - 10-20 mo.	Breeding heifer (dairy)	300	800	Jan Early - Dec Late	100	Heifer - Slurry tank
Heifers - 4-10 month	Growing heifer/steer (dairy)	340	360	Jan Early - Dec Late	100	Heifer - Slurry tank
Heifer (2-4m) Pack (alley scrape)	Weaned heifer/steer (dairy)	80	225	Jan Early - Dec Late	30	Heifer - Slurry tank
Heifer (2-4m) Pack (bed pack)	Weaned heifer/steer (dairy)	80	225	Jan Early - Dec Late	70	Heifer - Solids Shed
Calves 0-2 month	Calf (dairy)	100	150	Jan Early - Dec Late	100	Heifer - Solids Shed

a. The average number of animals present in the production facility at any one time.
b. If manure collected is less than 100%, this indicates that the animals spend a portion of the day outside of the production facility or the production facility is unoccupied one or more times during the confinement period.

2.5. Normal Animal Mortality Management

The farm currently composts animal mortalities in a designated field edge in the southwest corner the home farm. There is an estimated 6% mortality rate, 60/yr or 5/mo on average. The farm is concerned about soil and water quality due to leaching. Mortalities are composted with waste silage and other bulking materials.

Plan for Proper Animal Mortality Management

The farm plans to construct an animal mortality composting facility adjacent to the silage pond at the home farm. This will greatly reduce the amount of contaminants entering ground and surface waters. Currently, and once the building is constructed, the mortality area should have a thick base layer (18 to 24 inches) of high carbon material such as sawdust, straw, leaves, or similar products to absorb nutrients and liquids from composting process. The animal should be laid on a thick carbon layer, and then a layer of good composting material should be placed over the animal, extending approximately two feet in all directions from the dimension of the animal. Good composting material may include manure with bedding, waste silage, green hay, grass clippings, or unfinished compost. Allow the compost pile to rest undisturbed for approximately two to three months (the frequency of turning depends on the rate of decomposition). Monitor the pile temperature and moisture level. Adjust as necessary to keep the pile approximately 50 to 60 percent moisture content and 140 to 160 degrees Fahrenheit. As the temperature begins to fall from its peak value (check the pile if it falls below 120 degrees Fahrenheit), evaluate the compost composition to determine if the pile needs additional materials or if it should be turned. If a building is not available for composting, a outdoor area, in a high-and-dry location, could be used for a small number of mortalities or volumes.

2.6. Planned Manure Exports

This table shows a schedule of manure products exported, or taken off the farm managed land. A set schedule of separated solids is delivered every four weeks to a neighboring farm managing dry cows and operating independently with it's own manure management plan. In addition, Graywall Farms may need to export approximately 1.2 million gallons annually, off-farm, to help balance the animals:acre ratio of manure generated on the farm. The farm works with neighboring farms related to feedstock production (corn/grass) and plans to export the manure to the same acres as the feed source.

Month-Year	Manure Source	Amount	Receiving Operation	Location
Nov 2020	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Dec 2020	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Jan 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Feb 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Mar 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Apr 2021	Milker - Slurrystore	554,003 gal	Purchased Grass/Hay Fields	Off Farm
Apr 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Apr 2021	Milkers - Lagoon	713,000 gal	Purchsed Corn/Hay Fields	Off Farm
May 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding

Month-Year	Manure Source	Amount	Receiving Operation	Location
Jun 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Jul 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Aug 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Sep 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Oct 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Nov 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Dec 2021	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Jan 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Feb 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Mar 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Apr 2022	Milker - Slurrystore	457,485 gal	Purchased hay/corn fields	Off Farm
Apr 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Apr 2022	Milkers - Lagoon	741,200 gal	Purchased hay/corn fields	Off Farm
May 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Jun 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Jul 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Aug 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Sep 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Oct 2022	Milker - Slurrystore	346,043 gal	Puchased hay/corn	Off Farm
Oct 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Oct 2022	Milkers - Lagoon	72,250 gal	Purchased hay/corn fields	Off Farm
Nov 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Dec 2022	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Jan 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Feb 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Mar 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Apr 2023	Milker - Slurrystore	400,000 gal	Purchased hay/corn fields	Off Farm
Apr 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Apr 2023	Milkers - Lagoon	972,700 gal	Purchsed hay/corn fields	Off Farm
May 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Jun 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Jul 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Aug 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Sep 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Oct 2023	Milker - Slurrystore	215,748 gal	Purchased hay/corn	Off Farm
Oct 2023	Milker - Solids Shed	50 tons	Hills Farm	Dry cow bedding
Oct 2023	Milkers - Lagoon	134,147 gal	Purchased hay/corn	Off Farm

2.7. Planned Manure Imports

No manures from off-farm sources are planned at this time.

Month-Year	Manure's Animal Type	Amount	Originating Operation	Location

(None)

2.8. Planned Internal Transfers of Manure

The manure transfer table is extensive, in part, because of software limitations, but the plan is dependent on regularly and consistently moving materials to different storages through the farm operation.

The Milker Facility liquids will transition between the Slurrystore and the lined lagoon. The solids will transfer from the Milkers Separated Solids shed to the proposed compost shed for long-term (6 mo) storage or management as compost.

The Heifer Facility liquids will transfer approximately every 10 days from the in-ground, concrete slurry tank to both the Briggs Road lagoon and to the Walden lagoon. The solids stacked in the Heifer Freestall #1 barn will transfer approximately every twelve weeks (or less as needed) to the Milkers Facility compost shed for long-term (6 mo) storage or management as compost.

Month-Year	Manure Source	Amount	Manure Destination
Nov 2020	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Nov 2020	Milker - Slurrystore	662,800 gal	Milkers - Lagoon
Nov 2020	Milker - Solids Shed	513 tons	Compost Building
Dec 2020	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Dec 2020	Milker - Slurrystore	125,600 gal	Briggs Road Lagoon
Dec 2020	Milker - Slurrystore	537,200 gal	Milkers - Lagoon
Dec 2020	Milker - Solids Shed	513 tons	Compost Building
Jan 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Jan 2021	Heifer - Solids Shed	210 tons	Compost Building
Jan 2021	Milker - Slurrystore	662,800 gal	Briggs Road Lagoon
Jan 2021	Milker - Solids Shed	513 tons	Compost Building
Feb 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Feb 2021	Milker - Slurrystore	41,600 gal	Briggs Road Lagoon
Feb 2021	Milker - Solids Shed	513 tons	Compost Building
Mar 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Mar 2021	Heifer - Solids Shed	140 tons	Compost Building
Mar 2021	Milker - Solids Shed	513 tons	Compost Building
Apr 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Apr 2021	Milker - Solids Shed	513 tons	Compost Building
May 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
May 2021	Milker - Solids Shed	513 tons	Compost Building
Jun 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Jun 2021	Heifer - Solids Shed	210 tons	Compost Building
Jun 2021	Milker - Solids Shed	513 tons	Compost Building
Jul 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Jul 2021	Milker - Slurrystore	400,000 gal	Milkers - Lagoon
Jul 2021	Milker - Slurrystore	457,230 gal	Briggs Road Lagoon

Month-Year	Manure Source	Amount	Manure Destination
Jul 2021	Milker - Solids Shed	513 tons	Compost Building
Aug 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Aug 2021	Milker - Solids Shed	513 tons	Compost Building
Sep 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Sep 2021	Heifer - Solids Shed	210 tons	Compost Building
Sep 2021	Milker - Solids Shed	513 tons	Compost Building
Oct 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Oct 2021	Milker - Slurrystore	828,300 gal	Briggs Road Lagoon
Oct 2021	Milker - Solids Shed	513 tons	Compost Building
Nov 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Nov 2021	Milker - Slurrystore	590,310 gal	Briggs Road Lagoon
Nov 2021	Milker - Solids Shed	513 tons	Compost Building
Dec 2021	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Dec 2021	Heifer - Solids Shed	210 tons	Compost Building
Dec 2021	Milker - Solids Shed	513 tons	Compost Building
Jan 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Jan 2022	Milker - Solids Shed	513 tons	Compost Building
Feb 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Feb 2022	Milker - Slurrystore	1,200,000 gal	Milkers - Lagoon
Feb 2022	Milker - Solids Shed	513 tons	Compost Building
Mar 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Mar 2022	Heifer - Solids Shed	210 tons	Compost Building
Mar 2022	Milker - Solids Shed	513 tons	Compost Building
Apr 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Apr 2022	Milker - Solids Shed	513 tons	Compost Building
May 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
May 2022	Milker - Solids Shed	513 tons	Compost Building
Jun 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Jun 2022	Heifer - Solids Shed	210 tons	Compost Building
Jun 2022	Milker - Solids Shed	513 tons	Compost Building
Jul 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Jul 2022	Milker - Slurrystore	683,400 gal	Briggs Road Lagoon
Jul 2022	Milker - Solids Shed	513 tons	Compost Building
Aug 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Aug 2022	Milker - Solids Shed	513 tons	Compost Building
Sep 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Sep 2022	Heifer - Solids Shed	210 tons	Compost Building
Sep 2022	Milker - Slurrystore	350,000 gal	Briggs Road Lagoon
Sep 2022	Milker - Slurrystore	500,000 gal	Milkers - Lagoon
Sep 2022	Milker - Solids Shed	513 tons	Compost Building
Oct 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Oct 2022	Milker - Slurrystore	265,200 gal	Briggs Road Lagoon
Oct 2022	Milker - Solids Shed	513 tons	Compost Building

Month-Year	Manure Source	Amount	Manure Destination
Nov 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Nov 2022	Milker - Slurrystore	515,500 gal	Briggs Road Lagoon
Nov 2022	Milker - Solids Shed	513 tons	Compost Building
Dec 2022	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Dec 2022	Heifer - Solids Shed	210 tons	Compost Building
Dec 2022	Milker - Solids Shed	513 tons	Compost Building
Jan 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Jan 2023	Milker - Slurrystore	1,200,000 gal	Milkers - Lagoon
Jan 2023	Milker - Solids Shed	513 tons	Compost Building
Feb 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Feb 2023	Milker - Solids Shed	513 tons	Compost Building
Mar 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Mar 2023	Heifer - Solids Shed	210 tons	Compost Building
Mar 2023	Milker - Solids Shed	513 tons	Compost Building
Apr 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Apr 2023	Milker - Slurrystore	793,397 gal	Milkers - Lagoon
Apr 2023	Milker - Solids Shed	513 tons	Compost Building
May 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
May 2023	Milker - Solids Shed	513 tons	Compost Building
Jun 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Jun 2023	Heifer - Solids Shed	210 tons	Compost Building
Jun 2023	Milker - Solids Shed	513 tons	Compost Building
Jul 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Jul 2023	Milker - Solids Shed	513 tons	Compost Building
Aug 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Aug 2023	Milker - Slurrystore	550,000 gal	Briggs Road Lagoon
Aug 2023	Milker - Solids Shed	513 tons	Compost Building
Sep 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Sep 2023	Heifer - Solids Shed	210 tons	Compost Building
Sep 2023	Milker - Solids Shed	513 tons	Compost Building
Oct 2023	Heifer - Slurry tank	136,700 gal	Walden Lagoon
Oct 2023	Milker - Slurrystore	730,000 gal	Briggs Road Lagoon
Oct 2023	Milker - Solids Shed	513 tons	Compost Building

Section 3. Farmstead Safety and Security

3.1. Emergency Response Plan

GUIDANCE FOR EMERGENCY SITUATIONS

Storage Facility Spill, Leak, or Failure:

a. Stop all other activities to address the spill.
b. Stop the flow. For example, use skid loader or tractor with blade to contain or divert spill or leak.
c. Call for help and excavator if needed.
d. Complete the clean-up and repair the necessary components.
e. Assess the extent of the emergency and request additional help if needed.

Spill, Leak, or Failure during Transport or Land Application:

a. Stop all other activities to address the spill and stop the flow.
b. Call for help if needed.
c. If the spill posed a hazard to local traffic, call for local traffic control assistance and clear the road and roadside of spilled material.
d. Contain the spill or runoff from entering surface waters using straw bales, saw dust, soil or other appropriate materials.
e. If flow is coming from a tile, plug the tile with a tile plug immediately.
f. Assess the extent of the emergency and request additional help if needed.

Emergency Contacts

Department / Agency	Phone Number
Local Police Department	(860) 642-7730 or 911
Fire and Rescue Services	(860) 642-7546 or 911
State Veterinarian- Dr. Mary Jane Lis	860-713-2505

Nearest Available Excavation Equipment/Supplies

Equipment Type	Contact Person	Phone Number
Excavation	ABCD Excavating LLC	860-642-7909
Excavation	Bakaj Constructio	860-642-7152

Required Contacts (to be made by the owner or operator within 24 hours)

Organization	Phone Number
DEEP Emergency Spill Hotline	1-866-337-7745 or 860-424-3338
Local Health Department	860-465-3033

Be prepared to provide the following information:

a. Your name and contact information.
b. Farm location (driving directions) and other pertinent information.
c. Description of emergency.
d. Estimate of the amounts, area covered, and distance traveled.
e. Whether manure has reached surface waters or major field drains.
f. Whether there is any obvious damage: employee injury, fish kill, or property damage.
g. Current status of containment efforts.

3.2. Biosecurity Measures

Biosecurity is critical to protecting livestock and poultry operations. Visitors must contact and check in with the producer before visiting the operation or entering any production or storage facility. The following narrative describes how animal veterinary wastes (including medical equipment, empty containers, needles, and expired medications) will be managed at the operation.

Common Sense Biosecurity Measures You Can Follow[2]

The following do's and don'ts provide some basic tips for you to help prevent foreign animal disease outbreaks.

1. **Keep Your Distance** - Restrict access to your property and your livestock or poultry, and post a sign. Have one area where visitors can enter. Do not allow visitors near livestock or poultry unless absolutely necessary, and make sure visitors have clean footwear (disposable boots work well) and clothes (supply these for them). Have an area where visitors can change clothes and provide shower-in, shower-out facilities if possible. Discourage handling of animals by all visitors. Require and teach biosecurity to family, employees, and all visitors coming into, or involved with, your livestock or poultry production area.
2. **Keep It Clean** - You, your staff, and your family should follow biosecurity procedures for cleanliness. Wear clean clothes, scrub your shoes/boots with disinfectant, and wash hands thoroughly. Keep equipment and vehicles clean and insist that all machinery and vehicles must be cleaned before entering your property. Maintain programs to control birds and rodents that can carry and spread diseases.
3. **Don't Haul Disease Home** - If you, your family, or employees have been on other farms, at feed lots, petting zoos, auctions, or other places where there is livestock and poultry, clean and disinfect your truck or car tires and equipment before going home. If you have shown livestock or birds at a fair or exhibition, or are bringing in new animals, keep them separated from the rest of your herd or flock for 30 days after the event. Always change clothes and wash your hands before returning to your animals.
4. **Don't Borrow Disease From Your Neighbor** - Do not share equipment, tools, or other supplies with your neighbors or other livestock or poultry owners. If you do share these items be sure to clean and disinfect them before they reach your property.
5. **Look for Signs of Infectious Diseases** - You should know what diseases are of concern for your herd or flock and be on the lookout for unusual signs or behavior, severe illness and/or sudden deaths. When possible, assess the health of your animals daily. Early detection is important to pre-vent the spread of disease.

Report Sick Animals - Don't wait. Report serious or unusual animal health problems to your veterinarian, local extension office, or State or Federal animal health officials. USDA operates a toll-free hotline (1-866-536-7593) with veterinarians to help you. There is no charge for this service.

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[2] Obtained from USDA APHIS Factsheet: *Biosecurity: Protecting Your Livestock and Poultry (March 2007)*

3.3. Catastrophic Animal Mortality Management

In the event of catastrophic animal mortality, contact the following authority before beginning carcass disposal:

Connecticut Department of Agriculture
Office of the State Veterinarian
Dr. Mary Jane Lis
Phone: (860)713-2505

Connecticut Department of Energy and Environmental Protection (DEEP)
Water Permitting and Enforcement Division
Phone: (860) 424-3025

Refer to NRCS practice standard 368, Emergency Animal Mortality Management, or state guidance, regarding specific details on catastrophic animal mortality handling methods. The soil interpretations found in the Disaster Recovery category under Soil Suitabilities and Limitations on the Web Soil Survey (http://websoilsurvey.nrcs.usda.gov/app/) can be used as an initial screening tool to identify areas that are likely to be most suitable for this practice.

Plan for Catastrophic Animal Mortality Management
Please refer to the ReadyAG© Disaster and Defense Preparedness for Production Agriculture workbook for details on the farm's disaster management and catastrophic animal mortality protocol.

3.4. Chemical Handling

If checked, the indicated measures will be taken to prevent chemicals and other contaminants from contaminating process waste water or storm water storage and treatment systems. Typical best management practices for basic chemical handling include keeping the chemical storage area free of clutter and debris, stored off the ground and away from contact with water, in the chemicals original containers with properly marked labels and safety information, a spill containment kit, ready access to a means of fresh water or eye wash, or similar safety equipment.

☑ This is not a regulatory-agency permitted facility. This section does not apply.

	Measure
☐	All chemicals are stored in proper containers, expired chemicals and empty containers are properly disposed of in accordance with state and federal regulations, and pesticides and associated refuse are disposed of in accordance with the FIFRA label.
☐	Chemical storage areas are self-contained with no drains or other pathways that will allow spilled chemicals to exit the storage area.
☐	Chemical storage areas are covered to prevent chemical contact with rain or snow.
☐	Emergency procedures and equipment are in place to contain and clean up chemical spills.
☐	Chemical handling and equipment wash areas are designed and constructed to prevent contamination of surface waters, waste water and storm water storage, and treatment systems.
☐	All chemicals are custom applied, and no chemicals are stored at the operation. Equipment wash areas are designed and constructed to prevent contamination of surface waters and waste water and storm water storage and treatment systems.

Section 4. Crop and Pasture (Land Treatment)

4.1. Maps of Fields, Soils, and Topography - Existing and Planned Conservation Practices

See Appendix A-C

4.2. Crop and Pasture Conservation Practices – Record of Decisions

Nutrient Management (590): Apply the recommended amount of manure to crop fields by managing the amount (rate), source, placement (method of application), and timing of plant nutrients and soil amendments. Utilize manure stored in waste storage facility to provide nutrients to all crop fields. Manure can be applied when the producer chooses to, applications are shown in April and October for the nutrient management to demonstration capacity of storage. O&M: • Use nutrient management strategies such as cover crops, crop rotations, and perennials in the rotation to improve nutrient cycling and reduce energy inputs. • Manage or apply nutrients to maintain or improve the physical, chemical, or biological condition of the soil to enhance soil quality for crop production and environmental protection. • When possible, avoid applying nutrients when the potential for soil compaction and orderrutting is high. • Excessive levels of some nutrients can cause induced deficiencies of other nutrients, e.g., high soil test phosphorus levels can result in zinc deficiency in corn. • Avoid over-applying nutrients.	**All Cropland**	**2021 (on-going)**
Cover Crop (340) Grasses, legumes, and forbs planted for seasonal vegetative cover on all corn fields following harvest. Cover crops and reduced tillage/no till will decrease soil erosion and improve overall soil health. O&M: Evaluate the cover crop to determine if the cover crop is meeting the planned purpose(s). If the cover crop is not meeting the purpose(s) adjust the management, change the species of cover crop, or choose a different technology.	**All Cropland**	**2021 (on-going)**

All NRCS conservation practices shall be installed, operated and maintained according to NRCS conservation practice standards and associated technical specifications.

Section 5. Soil and Risk Assessment Analyses

5.1. Soil Information

Field	Soil Survey	Map Unit	Soil Component Name	Surface Texture	Slope Range (%)	OM Range (%)	Bedrock Depth (in)	Drainage	Annual Flooding
Strauss 2 (corn)	600	38C	Hinckley	MPM	3-15%	75-99.5%		EWell	None
Strauss 4 (grass)	600	61B	Canton	SPM	0-8%	75-99.5%		Well	None
Strauss 6 (corn)	600	60B	Charlton	FSL	3-8%	4-25%		Well	None
Strauss 7 (corn)	600	60B	Canton	FSL	3-8%	2-12%		Well	None
Strauss 12 (grass)	600	60B	Canton	FSL	3-8%	2-12%		Well	None
Strauss 13 (corn)	600	60B	Canton	FSL	3-8%	2-12%		Well	None
Strauss 5 (corn)	600	60B	Charlton	FSL	3-8%	4-25%		Well	None
Bender/V.Hill3A (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Bender/V.Hill3B (grass)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Bender/V.Hill 4 (grass)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Bender/V.Hill 5 (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Bender/V.Hill 6 (corn)	600	45A	Woodbridge	FSL	0-3%	2-15%		MWell	None
Flegerts 1 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Flegerts 2 (corn)	600	45C	Woodbridge	FSL	8-15%	2-15%		MWell	None
Flegerts 3 (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Flegerts 4 (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Flegerts 5 (corn)	600	85B	Paxton	MPM	3-8%	75-99.5%		Well	None
Flegerts 6 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Home Farm 1 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Home Farm 2 (corn)	600	60B	Canton	FSL	3-8%	2-12%		Well	None
Home Farm 4 (corn)	600	85B	Paxton	MPM	3-8%	75-99.5%		Well	None
Home Farm 5 (grass)	600	51B	Sutton	FSL	2-8%	2-6%		MWell	None

Field	Soil Survey	Map Unit	Soil Component Name	Surface Texture	Slope Range (%)	OM Range (%)	Bedrock Depth (in)	Drainage	Annual Flooding
Home Farm 6 (grass)	600	84D	Paxton	FSL	15-25%	2-15%		Well	None
Scanlon big lot (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Scanlon middle (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Scanlon back (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Scanlon front (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Left of Scanlon (grass)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
EvergreenFarm 1 (grass)	600	73E	Chatfield	HPM	15-45%	50-95%	29	Well	None
EvergreenFarm 2 (corn)	600	38C	Hinckley	MPM	3-15%	75-99.5%		EWell	None
EvergreenFarm 3 (corn)	600	38C	Hinckley	MPM	3-15%	75-99.5%		EWell	None
EvergreenFarm 4 (corn)	600	38C	Hinckley	MPM	3-15%	75-99.5%		EWell	None
EvergreenFarm 5 (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
EvergreenFarm 7 (grass)	600	38C	Hinckley	MPM	3-15%	75-99.5%		EWell	None
Young Stock 1 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Young Stock 5 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Young Stock 6 (corn)	600	46B	Woodbridge	MPM	0-8%	75-99.5%		MWell	None
Young Stock 7 (grass)	600	45A	Woodbridge	FSL	0-3%	2-15%		MWell	None
Young Stock 9 (grass)	600	84C	Paxton	FSL	8-15%	2-15%		Well	None
Flora (corn)	600	45A	Woodbridge	FSL	0-3%	2-15%		MWell	None
Keys (grass)	600	45A	Woodbridge	FSL	0-3%	2-15%		MWell	None
Krause 1 (grass)	600	62C	Charlton	MPM	3-15%	75-99.5%		Well	None
Krause 3 (grass)	600	75C	Hollis	HPM	3-15%	20-60%	15	SEWell	None
Krause 5 (corn)	600	60B	Charlton	FSL	3-8%	4-25%		Well	None

Field	Soil Survey	Map Unit	Soil Component Name	Surface Texture	Slope Range (%)	OM Range (%)	Bedrock Depth (in)	Drainage	Annual Flooding
Krause 6 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Krause 7 (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Krause 8 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Krause 11 (fallo)	600	47C	Woodbridge	MPM	3-15%	75-99.5%		MWell	None
Pultz 1 (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Pultz 2 (grass)	600	84C	Paxton	FSL	8-15%	2-15%		Well	None
ScanlonPumpkLot (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
PigeonSwamp1 (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
BoggLnAbovePond (grass)	600	84C	Paxton	FSL	8-15%	2-15%		Well	None
BoggLn Valley1 (corn)	600	29B	Agawam	FSL	3-8%	0.38-11.71%		Well	None
Bogg Ln 1 (grass)	600	2	Ridgebury	MPM	0-3%	75-99.5%		Poor	None
Bogg Ln 2 (grass)	600	60B	Canton	FSL	3-8%	2-12%		Well	None
10acre Lot (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
LowBabcockHill1 (grass)	600	3	Ridgebury	MPM	0-8%	75-99.5%		Poor	None
LowBabcockHill2 (corn)	600	3	Ridgebury	MPM	0-8%	75-99.5%		Poor	None
LowBabcockHill3 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Kick Hill Lot (corn)	600	84B	Montauk	FSL	3-8%	2-5%		Well	None
McCaw (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Briggs Rd (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Bender 1 (grass)	600	84B	Montauk	FSL	3-8%	2-5%		Well	None
Bender 2 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Bender 7 (corn)	600	84B	Montauk	FSL	3-8%	2-5%		Well	None

Field	Soil Survey	Map Unit	Soil Component Name	Surface Texture	Slope Range (%)	OM Range (%)	Bedrock Depth (in)	Drainage	Annual Flooding
Bender 9 (fallo)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Bender 11 (fallo)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Bender 19 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Stebner 1 (grass)	600	45A	Woodbridge	FSL	0-3%	2-15%		MWell	None
Stebner 2 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Stebner 3 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Stebner 4 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Stebner 5 (corn)	600	45A	Woodbridge	FSL	0-3%	2-15%		MWell	None
Xmas Tree Corn (corn)	600	60B	Charlton	FSL	3-8%	4-25%		Well	None
Babcock Hill 1 (grass)	600	84B	Montauk	FSL	3-8%	2-5%		Well	None
Babcock Hill 2 (corn)	600	84B	Montauk	FSL	3-8%	2-5%		Well	None
Babcock Hill 3 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Babcock Hill 6 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Babcock Hill 10 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Babcock Hill 11 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Madley Rd 1 (grass)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Madley Rd 2 (grass)	600	45A	Woodbridge	FSL	0-3%	2-15%		MWell	None
Madley Rd 3 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Madley Bozworth (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Madley Rd 4 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Waldens 1 (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None

Field	Soil Survey	Map Unit	Soil Component Name	Surface Texture	Slope Range (%)	OM Range (%)	Bedrock Depth (in)	Drainage	Annual Flooding
Waldens 3 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Waldens 6 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Waldens 7 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Waldens 10 (corn)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Waldens 11 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Waldens 12 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Waldens 45 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Waldens 14 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Segars 1 (corn)	600	60B	Charlton	FSL	3-8%	4-25%		Well	None
Segars 2 (corn)	600	84C	Paxton	FSL	8-15%	2-15%		Well	None
Segars 3 (grass)	600	3	Leicester	MPM	0-8%	75-99.5%		Poor	None
Segars 4 (grass)	600	84B	Paxton	FSL	3-8%	3.34-6.57%		Well	None
Segars 6 (grass)	600	2	Ridgebury	MPM	0-3%	75-99.5%		Poor	None
Segars 7 (grass)	600	60B	Charlton	FSL	3-8%	4-25%		Well	None
Segars 8 (grass)	600	60B	Charlton	FSL	3-8%	4-25%		Well	None
Segars 9 (grass)	600	50B	Sutton	FSL	3-8%	2-6%		MWell	None
Segars 10 (grass)	600	52C	Sutton	FSL	2-15%	2-6%		MWell	None
Segars 11 (grass)	600	61B	Charlton	MPM	0-8%	75-99.5%		Well	None
Segars 12 (grass)	600	47C	Woodbridge	MPM	3-15%	75-99.5%		MWell	None
Segars 13 (grass)	600	47C	Woodbridge	MPM	3-15%	75-99.5%		MWell	None
Carneys 1 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Carneys 2 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Carneys 3 (corn)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None

Field	Soil Survey	Map Unit	Soil Component Name	Surface Texture	Slope Range (%)	OM Range (%)	Bedrock Depth (in)	Drainage	Annual Flooding
Carneys 4 (grass)	600	45B	Woodbridge	FSL	3-8%	3.34-9.72%		MWell	None
Carneys 5 (grass)	600	29A	Agawam	FSL	0-3%	0.38-11.71%		Well	None
Synagogue Rd 3 (grass)	600	102	Pootatuck	FSL	0-3%	2-6%		MWell	Freq
Synagogue Rd 4 (grass)	600	103	Rippowam	FSL	0-3%	3-8%		Poor	Freq
Synagogue Rd 5 (grass)	600	34B	Merrimac	FSL	3-8%	1.78-5.86%		SEWell	None
Synagogue Rd 6 (grass)	600	60B	Charlton	FSL	3-8%	4-25%		Well	None
Synagogue Rd 9 (grass)	600	102	Pootatuck	FSL	0-3%	2-6%		MWell	Freq
M City Rd 1 (corn)	600	21A	Ninigret	FSL	0-5%	2-5%		MWell	None
M City Rd 2 (corn)	600	60C	Charlton	FSL	8-15%	4-25%		Well	None
M City Rd 3 (corn)	600	6	Wilbraham	MPM	0-8%	75-99.5%		Poor	None
Winery (grass)	600	84C	Paxton	FSL	8-15%	2-15%		Well	None
Randazzo (grass)	600	84C	Paxton	FSL	8-15%	2-15%		Well	None
Chappel Rd Corn (corn)	600	60B	Canton	FSL	3-8%	2-12%		Well	None
Chappel Rd Gras (grass)	600	60B	Canton	FSL	3-8%	2-12%		Well	None
Xmas Tree Grass (grass)	600	60B	Charlton	FSL	3-8%	4-25%		Well	None

5.2. Predicted Soil Erosion

Average water, wind, irrigation, gully and ephemeral erosion estimates

Field	Predominant Soil Type	T Factor (t/ac/yr)	Slope (%)	Water (Sheet and Rill) (t/ac/yr)	Wind (t/ac/yr)	Irrigation Erosion Controlled (y/n)	Gully Erosion Controlled (y/n)	Ephemeral Erosion Controlled (y/n)
Strauss 2 (corn)	38C (Hinckley MPM)	3	5.0	0.0				
Strauss 4 (grass)	61B (Canton SPM)	3	4.0	0.0				
Strauss 6 (corn)	60B (Charlton FSL)	5	3.0	0.0				
Strauss 7 (corn)	60B (Canton FSL)	3	3.0	0.0				
Strauss 12 (grass)	60B (Canton FSL)	3	5.5	0.0				
Strauss 13 (corn)	60B (Canton FSL)	3	5.5	0.0				
Strauss 5 (corn)	60B (Charlton FSL)	5	5.5	0.0				
Bender/V.Hill3A (corn)	84B (Paxton FSL)	3	6.0	0.0				
Bender/V.Hill3B (grass)	84B (Paxton FSL)	3	5.5	0.4				
Bender/V.Hill 4 (grass)	84B (Paxton FSL)	3	5.5	0.4				
Bender/V.Hill 5 (corn)	84B (Paxton FSL)	3	7.0	0.0				
Bender/V.Hill 6 (corn)	45A (Woodbridge FSL)	3	1.5	0.0				
Flegerts 1 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Flegerts 2 (corn)	45C (Woodbridge FSL)	3	9.0	0.0				
Flegerts 3 (corn)	84B (Paxton FSL)	3	6.0	0.0				
Flegerts 4 (corn)	84B (Paxton FSL)	3	5.5	0.0				
Flegerts 5 (corn)	85B (Paxton MPM)	3	3.0	0.0				
Flegerts 6 (corn)	45B (Woodbridge FSL)	3	7.0	0.0				
Home Farm 1 (corn)	45B (Woodbridge FSL)	3	4.0	0.0				
Home Farm 2 (corn)	60B (Canton FSL)	3	5.5	0.0				
Home Farm 4 (corn)	85B (Paxton MPM)	3	5.5	0.0				
Home Farm 5 (grass)	51B (Sutton FSL)	5	5.0	0.3				
Home Farm 6 (grass)	84D (Paxton FSL)	3	20.0	2.2				
Scanlon big lot (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Scanlon middle (corn)	84B (Paxton FSL)	3	9.0	0.0				
Scanlon back (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Scanlon front (corn)	84B (Paxton FSL)	3	8.0	0.0				

Field	Predominant Soil Type	T Factor (t/ac/yr)	Slope (%)	Water (Sheet and Rill) (t/ac/yr)	Wind (t/ac/yr)	Irrigation Erosion Controlled (y/n)	Gully Erosion Controlled (y/n)	Ephemeral Erosion Controlled (y/n)
Left of Scanlon (grass)	84B (Paxton FSL)	3	5.5	0.4				
EvergreenFarm 1 (grass)	73E (Chatfield HPM)	2	30.0	0.0				
EvergreenFarm 2 (corn)	38C (Hinckley MPM)	3	9.0	0.0				
EvergreenFarm 3 (corn)	38C (Hinckley MPM)	3	9.0	0.0				
EvergreenFarm 4 (corn)	38C (Hinckley MPM)	3	3.0	0.0				
EvergreenFarm 5 (corn)	84B (Paxton FSL)	3	5.5	0.0				
EvergreenFarm 7 (grass)	38C (Hinckley MPM)	3	9.0	0.0				
Young Stock 1 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Young Stock 5 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Young Stock 6 (corn)	46B (Woodbridge MPM)	3	4.0	0.0				
Young Stock 7 (grass)	45A (Woodbridge FSL)	3	1.5	0.1				
Young Stock 9 (grass)	84C (Paxton FSL)	3	9.5	0.7				
Flora (corn)	45A (Woodbridge FSL)	3	1.5	0.0				
Keys (grass)	45A (Woodbridge FSL)	3	4.0	0.4				
Krause 1 (grass)	62C (Charlton MPM)	5	9.0	0.5				
Krause 3 (grass)	75C (Hollis HPM)	1	9.0	0.7				
Krause 5 (corn)	60B (Charlton FSL)	5	5.5	0.0				
Krause 6 (grass)	45B (Woodbridge FSL)	3	5.5	0.4				
Krause 7 (corn)	84B (Paxton FSL)	3	8.0	0.0				
Krause 8 (corn)	45B (Woodbridge FSL)	3	3.0	0.0				
Krause 11 (fallo)	47C (Woodbridge MPM)	3	9.0					
Pultz 1 (corn)	84B (Paxton FSL)	3	7.0	0.0				
Pultz 2 (grass)	84C (Paxton FSL)	3	10.0	0.1				
ScanlonPumpkLot (corn)	84B (Paxton FSL)	3	8.0	0.0				
PigeonSwamp1 (corn)	84B (Paxton FSL)	3	3.0	0.0				
BoggLnAbovePond (grass)	84C (Paxton FSL)	3	15.0					
BoggLn Valley1 (corn)	29B (Agawam FSL)	3	5.5	0.0				
Bogg Ln 1 (grass)	2 (Ridgebury MPM)	2	1.5	0.2				
Bogg Ln 2 (grass)	60B (Canton FSL)	3	5.5	0.3				

Field	Predominant Soil Type	T Factor (t/ac/yr)	Slope (%)	Water (Sheet and Rill) (t/ac/yr)	Wind (t/ac/yr)	Irrigation Erosion Controlled (y/n)	Gully Erosion Controlled (y/n)	Ephemeral Erosion Controlled (y/n)
10acre Lot (corn)	84B (Paxton FSL)	3	7.0	0.0				
LowBabcockHill1 (grass)	3 (Ridgebury MPM)	2	4.0	0.4				
LowBabcockHill2 (corn)	3 (Ridgebury MPM)	2	4.0	0.0				
LowBabcockHill3 (grass)	45B (Woodbridge FSL)	3	5.5	0.4				
Kick Hill Lot (corn)	84B (Montauk FSL)	3	8.0	0.0				
McCaw (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Briggs Rd (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Bender 1 (grass)	84B (Montauk FSL)	3	5.5	0.4				
Bender 2 (grass)	45B (Woodbridge FSL)	3	5.5	0.5				
Bender 7 (corn)	84B (Montauk FSL)	3	5.5	0.0				
Bender 9 (fallo)	45B (Woodbridge FSL)	3	5.5	0.0				
Bender 11 (fallo)	45B (Woodbridge FSL)	3	5.5	0.0				
Bender 19 (grass)	45B (Woodbridge FSL)	3	5.5	0.5				
Stebner 1 (grass)	45A (Woodbridge FSL)	3	1.5	0.1				
Stebner 2 (corn)	45B (Woodbridge FSL)	3	3.0	0.0				
Stebner 3 (grass)	45B (Woodbridge FSL)	3	8.0	0.6				
Stebner 4 (grass)	45B (Woodbridge FSL)	3	5.5	0.4				
Stebner 5 (corn)	45A (Woodbridge FSL)	3	1.5	0.0				
Xmas Tree Corn (corn)	60B (Charlton FSL)	5	5.5	0.0				
Babcock Hill 1 (grass)	84B (Montauk FSL)	3	8.0	0.5				
Babcock Hill 2 (corn)	84B (Montauk FSL)	3	3.0	0.0				
Babcock Hill 3 (grass)	45B (Woodbridge FSL)	3	5.5	0.4				
Babcock Hill 6 (corn)	45B (Woodbridge FSL)	3	3.0	0.0				
Babcock Hill 10 (corn)	45B (Woodbridge FSL)	3	5.5					
Babcock Hill 11 (corn)	45B (Woodbridge FSL)	3	4.0	0.0				
Madley Rd 1 (grass)	84B (Paxton FSL)	3	5.5	0.4				
Madley Rd 2 (grass)	45A (Woodbridge FSL)	3	1.5	0.1				
Madley Rd 3 (grass)	45B (Woodbridge FSL)	3	5.5	0.5				
Madley Bozworth (grass)	45B (Woodbridge FSL)	3	5.5	0.4				
Madley Rd 4 (grass)	45B (Woodbridge FSL)	3	5.5	0.4				

Field	Predominant Soil Type	T Factor (t/ac/yr)	Slope (%)	Water (Sheet and Rill) (t/ac/yr)	Wind (t/ac/yr)	Irrigation Erosion Controlled (y/n)	Gully Erosion Controlled (y/n)	Ephemeral Erosion Controlled (y/n)
Waldens 1 (corn)	84B (Paxton FSL)	3	5.5	0.0				
Waldens 3 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Waldens 6 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Waldens 7 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Waldens 10 (corn)	84B (Paxton FSL)	3	5.5	0.0				
Waldens 11 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Waldens 12 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Waldens 45 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Waldens 14 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Segars 1 (corn)	60B (Charlton FSL)	5	5.5	0.0				
Segars 2 (corn)	84C (Paxton FSL)	3	11.5	0.0				
Segars 3 (grass)	3 (Leicester MPM)	5	4.0	0.0				
Segars 4 (grass)	84B (Paxton FSL)	3	5.5	0.5				
Segars 6 (grass)	2 (Ridgebury MPM)	2	1.5	0.2				
Segars 7 (grass)	60B (Charlton FSL)	5	5.5	0.4				
Segars 8 (grass)	60B (Charlton FSL)	5	5.5	0.4				
Segars 9 (grass)	50B (Sutton FSL)	5	5.5	0.3				
Segars 10 (grass)	52C (Sutton FSL)	5	8.5	0.0				
Segars 11 (grass)	61B (Charlton MPM)	5	4.0	0.3				
Segars 12 (grass)	47C (Woodbridge MPM)	3	9.0	0.8				
Segars 13 (grass)	47C (Woodbridge MPM)	3	9.0	0.9				
Carneys 1 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Carneys 2 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Carneys 3 (corn)	45B (Woodbridge FSL)	3	5.5	0.0				
Carneys 4 (grass)	45B (Woodbridge FSL)	3	5.5	0.0				
Carneys 5 (grass)	29A (Agawam FSL)	3	1.5	0.0				
Synagogue Rd 3 (grass)	102 (Pootatuck FSL)	3	1.5	0.0				
Synagogue Rd 4 (grass)	103 (Rippowam FSL)	3	1.5	0.0				
Synagogue Rd 5 (grass)	34B (Merrimac FSL)	4	5.5	0.0				
Synagogue Rd 6 (grass)	60B (Charlton FSL)	5	5.5	0.0				

Field	Predominant Soil Type	T Factor (t/ac/yr)	Slope (%)	Water (Sheet and Rill) (t/ac/yr)	Wind (t/ac/yr)	Irrigation Erosion Controlled (y/n)	Gully Erosion Controlled (y/n)	Ephemeral Erosion Controlled (y/n)
Synagogue Rd 9 (grass)	102 (Pootatuck FSL)	3	1.5	0.0				
M City Rd 1 (corn)	21A (Ninigret FSL)	3	2.5	0.0				
M City Rd 2 (corn)	60C (Charlton FSL)	5	11.5	0.0				
M City Rd 3 (corn)	6 (Wilbraham MPM)	3	4.0	0.0				
Winery (grass)	84C (Paxton FSL)	3	11.5	0.1				
Randazzo (grass)	84C (Paxton FSL)	3	11.5	0.1				
Chappel Rd Corn (corn)	60B (Canton FSL)	3	5.5	0.0				
Chappel Rd Gras (grass)	60B (Canton FSL)	3	5.5	0.4				
Xmas Tree Grass (grass)	60B (Charlton FSL)	5	5.5	0.4				

Crop period sheet and rill erosion estimates

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
Strauss 2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Strauss 4 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0
Strauss 6 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Strauss 7 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Strauss 12 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
Strauss 13 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Strauss 5 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Bender/V.Hill3A (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Bender/V.Hill3B (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.3
Bender/V.Hill 4 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.3
Bender/V.Hill 5 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Bender/V.Hill 6 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Flegerts 1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Flegerts 2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Flegerts 3 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Flegerts 4 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Flegerts 5 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Flegerts 6 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Home Farm 1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Home Farm 2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Home Farm 4 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Home Farm 5 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.3
	2023	Grass	8/21/2022	8/20/2023	0.3
Home Farm 6 (grass)	2021	Grass	8/21/2020	8/20/2021	2.4
	2022	Grass	8/21/2021	8/20/2022	2.2
	2023	Grass	8/21/2022	8/20/2023	2.1
Scanlon big lot (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Scanlon middle (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Scanlon back (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Scanlon front (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Left of Scanlon (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.4
EvergreenFarm 1 (grass)	2021	Grass	8/21/2020	8/20/2021	0.1
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0
EvergreenFarm 2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
EvergreenFarm 3 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
EvergreenFarm 4 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
EvergreenFarm 5 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
EvergreenFarm 7 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
Young Stock 1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Young Stock 5 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Young Stock 6 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Young Stock 7 (grass)	2021	Grass	8/21/2020	8/20/2021	0.2
	2022	Grass	8/21/2021	8/20/2022	0.1
	2023	Grass	8/21/2022	8/20/2023	0.1
Young Stock 9 (grass)	2021	Grass	8/21/2020	8/20/2021	0.8
	2022	Grass	8/21/2021	8/20/2022	0.7
	2023	Grass	8/21/2022	8/20/2023	0.7
Flora (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Keys (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.4
Krause 1 (grass)	2021	Grass	8/21/2020	8/20/2021	0.6
	2022	Grass	8/21/2021	8/20/2022	0.5
	2023	Grass	8/21/2022	8/20/2023	0.5
Krause 3 (grass)	2021	Grass	8/21/2020	8/20/2021	0.8
	2022	Grass	8/21/2021	8/20/2022	0.7
	2023	Grass	8/21/2022	8/20/2023	0.6
Krause 5 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Krause 6 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.3
Krause 7 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Krause 8 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Krause 11 (fallo)	2021	Fallow	n/a	n/a	n/a
	2022	Fallow	n/a	n/a	n/a
	2023	Fallow	n/a	n/a	n/a
Pultz 1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Pultz 2 (grass)	2021	Grass	8/21/2020	8/20/2021	0.2
	2022	Grass	8/21/2021	8/20/2022	0.1
	2023	Grass	8/21/2022	8/20/2023	0.0
ScanlonPumpkLot (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
PigeonSwamp1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
BoggLnAbovePond (grass)	2021	Grass	n/a	n/a	n/a
	2022	Grass	n/a	n/a	n/a
	2023	Grass	n/a	n/a	n/a
BoggLn Valley1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Bogg Ln 1 (grass)	2021	Grass	8/21/2020	8/20/2021	0.2
	2022	Grass	8/21/2021	8/20/2022	0.2
	2023	Grass	8/21/2022	8/20/2023	0.2
Bogg Ln 2 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.3
10acre Lot (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
LowBabcockHill1 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.3
LowBabcockHill2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
LowBabcockHill3 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.3
Kick Hill Lot (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
McCaw (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Briggs Rd (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
Bender 1 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.4
Bender 2 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.5
	2023	Grass	8/21/2022	8/20/2023	0.5
Bender 7 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Bender 9 (fallo)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Bender 11 (fallo)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Bender 19 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.5
	2023	Grass	8/21/2022	8/20/2023	0.5
Stebner 1 (grass)	2021	Grass	8/21/2020	8/20/2021	0.2
	2022	Grass	8/21/2021	8/20/2022	0.2
	2023	Grass	8/21/2022	8/20/2023	0.1
Stebner 2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Stebner 3 (grass)	2021	Grass	8/21/2020	8/20/2021	0.7
	2022	Grass	8/21/2021	8/20/2022	0.6
	2023	Grass	8/21/2022	8/20/2023	0.6
Stebner 4 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.4

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2023	Grass	8/21/2022	8/20/2023	0.4
Stebner 5 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Xmas Tree Corn (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Babcock Hill 1 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.5
	2023	Grass	8/21/2022	8/20/2023	0.4
Babcock Hill 2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Babcock Hill 3 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.3
Babcock Hill 6 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Babcock Hill 10 (corn)	2021	Corn for Silage, convent	n/a	n/a	n/a
	2022	Corn for Silage, convent	n/a	n/a	n/a
	2023	Corn for Silage, convent	n/a	n/a	n/a
Babcock Hill 11 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Madley Rd 1 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.4
Madley Rd 2 (grass)	2021	Grass	8/21/2020	8/20/2021	0.2

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2022	Grass	8/21/2021	8/20/2022	0.1
	2023	Grass	8/21/2022	8/20/2023	0.1
Madley Rd 3 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.5
	2023	Grass	8/21/2022	8/20/2023	0.5
Madley Bozworth (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.5
	2023	Grass	8/21/2022	8/20/2023	0.4
Madley Rd 4 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.4
Waldens 1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Waldens 3 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Waldens 6 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Waldens 7 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Waldens 10 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Waldens 11 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
Waldens 12 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Waldens 45 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Waldens 14 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Segars 1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Segars 2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Segars 3 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.1
	2023	Grass	8/21/2022	8/20/2023	0.0
Segars 4 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.5
	2023	Grass	8/21/2022	8/20/2023	0.5
Segars 6 (grass)	2021	Grass	8/21/2020	8/20/2021	0.2
	2022	Grass	8/21/2021	8/20/2022	0.2
	2023	Grass	8/21/2022	8/20/2023	0.2
Segars 7 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.4
Segars 8 (grass)	2021	Grass	8/21/2020	8/20/2021	0.5
	2022	Grass	8/21/2021	8/20/2022	0.4

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2023	Grass	8/21/2022	8/20/2023	0.4
Segars 9 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.3
	2023	Grass	8/21/2022	8/20/2023	0.3
Segars 10 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.1
	2023	Grass	8/21/2022	8/20/2023	0.0
Segars 11 (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.3
	2023	Grass	8/21/2022	8/20/2023	0.3
Segars 12 (grass)	2021	Grass	8/21/2020	8/20/2021	0.9
	2022	Grass	8/21/2021	8/20/2022	0.8
	2023	Grass	8/21/2022	8/20/2023	0.8
Segars 13 (grass)	2021	Grass	8/21/2020	8/20/2021	0.9
	2022	Grass	8/21/2021	8/20/2022	0.9
	2023	Grass	8/21/2022	8/20/2023	0.9
Carneys 1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Carneys 2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Carneys 3 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Carneys 4 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0
Carneys 5 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0
Synagogue Rd 3 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0
Synagogue Rd 4 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0
Synagogue Rd 5 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0
Synagogue Rd 6 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0
Synagogue Rd 9 (grass)	2021	Grass	8/21/2020	8/20/2021	0.0
	2022	Grass	8/21/2021	8/20/2022	0.0
	2023	Grass	8/21/2022	8/20/2023	0.0
M City Rd 1 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
M City Rd 2 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
M City Rd 3 (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Winery (grass)	2021	Grass	8/21/2020	8/20/2021	0.2
	2022	Grass	8/21/2021	8/20/2022	0.1
	2023	Grass	8/21/2022	8/20/2023	0.1

Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
Randazzo (grass)	2021	Grass	8/21/2020	8/20/2021	0.3
	2022	Grass	8/21/2021	8/20/2022	0.1
	2023	Grass	8/21/2022	8/20/2023	0.1
Chappel Rd Corn (corn)	2021	Corn for Silage, convent	5/6/2020	5/5/2021	0.0
	2022	Corn for Silage, convent	5/6/2021	5/5/2022	0.0
	2023	Corn for Silage, convent	5/6/2022	5/5/2023	0.0
Chappel Rd Gras (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.4
Xmas Tree Grass (grass)	2021	Grass	8/21/2020	8/20/2021	0.4
	2022	Grass	8/21/2021	8/20/2022	0.4
	2023	Grass	8/21/2022	8/20/2023	0.4

5.3. Nitrogen and Phosphorus Risk Analyses

Connecticut Phosphorus Index

Field	Crop Year	P Source	Dissolved P Transport	Particulate P Transport	P Index w/o P Apps	P Index w/ P Apps	P Loss Risk
Strauss 2 (corn)	2021	472.3	1.0	1.0	452.50	472.26	Very High
Strauss 2 (corn)	2022	489.2	1.0	1.0	452.50	489.19	Very High
Strauss 2 (corn)	2023	489.2	1.0	1.0	452.50	489.19	Very High
Strauss 4 (grass)	2021	233.0	0.4	0.3	95.77	103.18	Very High
Strauss 4 (grass)	2022	233.0	0.4	0.3	95.77	103.18	Very High
Strauss 4 (grass)	2023	233.0	0.4	0.3	95.77	103.18	Very High
Strauss 6 (corn)	2021	330.8	0.8	0.7	242.78	258.02	Very High
Strauss 6 (corn)	2022	328.6	0.8	0.7	242.78	256.34	Very High
Strauss 6 (corn)	2023	328.6	0.8	0.7	242.78	256.34	Very High
Strauss 7 (corn)	2021	331.0	0.1	0.0	31.13	33.10	Low
Strauss 7 (corn)	2022	328.4	0.1	0.0	31.13	32.84	Low
Strauss 7 (corn)	2023	347.9	0.1	0.0	31.13	34.79	Low
Strauss 12 (grass)	2021	233.0	1.0	1.0	216.25	232.99	Very High
Strauss 12 (grass)	2022	233.0	1.0	1.0	216.25	232.99	Very High
Strauss 12 (grass)	2023	233.0	1.0	1.0	216.25	232.99	Very High
Strauss 13 (corn)	2021	601.0	1.0	1.0	581.25	600.99	Very High
Strauss 13 (corn)	2022	617.9	1.0	1.0	581.25	617.91	Very High
Strauss 13 (corn)	2023	617.9	1.0	1.0	581.25	617.91	Very High
Strauss 5 (corn)	2021	351.0	0.8	0.7	271.63	287.81	Very High
Strauss 5 (corn)	2022	367.9	0.8	0.7	271.63	301.69	Very High
Strauss 5 (corn)	2023	367.9	0.8	0.7	271.63	301.69	Very High
Bender/V.Hill3A (corn)	2021	135.7	0.1	0.0	11.63	13.57	Low
Bender/V.Hill3A (corn)	2022	152.0	0.1	0.0	11.63	15.20	Low
Bender/V.Hill3A (corn)	2023	152.0	0.1	0.0	11.63	15.20	Low
Bender/V.Hill3B (grass)	2021	34.0	0.1	0.0	1.50	3.40	Low
Bender/V.Hill3B (grass)	2022	34.0	0.1	0.0	1.50	3.40	Low

Field	Crop Year	P Source	Dissolved P Transport	Particulate P Transport	P Index w/o P Apps	P Index w/ P Apps	P Loss Risk
Bender/V.Hill3B (grass)	2023	34.0	0.1	0.0	1.50	3.40	Low
Bender/V.Hill 4 (grass)	2021	33.9	0.1	0.0	1.50	3.39	Low
Bender/V.Hill 4 (grass)	2022	33.9	0.1	0.0	1.50	3.39	Low
Bender/V.Hill 4 (grass)	2023	33.9	0.1	0.0	1.50	3.39	Low
Bender/V.Hill 5 (corn)	2021	135.5	0.1	0.0	11.63	13.55	Low
Bender/V.Hill 5 (corn)	2022	152.1	0.1	0.0	11.63	15.21	Low
Bender/V.Hill 5 (corn)	2023	152.1	0.1	0.0	11.63	15.21	Low
Bender/V.Hill 6 (corn)	2021	135.6	1.0	1.0	116.25	135.57	Very High
Bender/V.Hill 6 (corn)	2022	152.1	1.0	1.0	116.25	152.13	Very High
Bender/V.Hill 6 (corn)	2023	152.1	1.0	1.0	116.25	152.13	Very High
Flegerts 1 (corn)	2021	185.1	0.3	0.0	49.50	55.53	Medium
Flegerts 1 (corn)	2022	201.8	0.3	0.0	49.50	60.54	Medium
Flegerts 1 (corn)	2023	201.8	0.3	0.0	49.50	60.54	Medium
Flegerts 2 (corn)	2021	185.0	1.0	0.8	165.00	184.97	Very High
Flegerts 2 (corn)	2022	201.6	1.0	0.8	165.00	201.63	Very High
Flegerts 2 (corn)	2023	201.6	1.0	0.8	165.00	201.63	Very High
Flegerts 3 (corn)	2021	184.5	0.4	0.3	62.70	70.10	Medium
Flegerts 3 (corn)	2022	184.5	0.4	0.3	62.70	70.10	Medium
Flegerts 3 (corn)	2023	191.6	0.4	0.3	62.70	72.81	Medium
Flegerts 4 (corn)	2021	181.0	0.9	0.8	140.52	157.72	Very High
Flegerts 4 (corn)	2022	197.9	0.9	0.8	140.52	172.46	Very High
Flegerts 4 (corn)	2023	198.6	0.9	0.8	140.52	173.10	Very High
Flegerts 5 (corn)	2021	181.0	0.1	0.2	32.25	36.20	Low
Flegerts 5 (corn)	2022	197.9	0.1	0.2	32.25	39.58	Low
Flegerts 5 (corn)	2023	198.3	0.1	0.2	32.25	39.65	Low
Flegerts 6 (corn)	2021	182.2	0.4	0.1	61.27	69.23	Medium
Flegerts 6 (corn)	2022	197.9	0.4	0.1	61.27	75.21	High
Flegerts 6 (corn)	2023	198.5	0.4	0.1	61.27	75.42	High
Home Farm 1 (corn)	2021	12.9	0.3	0.0	3.38	3.88	Low
Home Farm 1 (corn)	2022	14.4	0.3	0.0	3.38	4.31	Low

Field	Crop Year	P Source	Dissolved P Transport	Particulate P Transport	P Index w/o P Apps	P Index w/ P Apps	P Loss Risk
Home Farm 1 (corn)	2023	14.4	0.3	0.0	3.38	4.31	Low
Home Farm 2 (corn)	2021	12.9	0.1	0.2	2.25	2.59	Low
Home Farm 2 (corn)	2022	14.4	0.1	0.2	2.25	2.87	Low
Home Farm 2 (corn)	2023	14.4	0.1	0.2	2.25	2.88	Low
Home Farm 4 (corn)	2021	12.9	0.1	0.0	1.13	1.29	Low
Home Farm 4 (corn)	2022	14.4	0.1	0.0	1.13	1.44	Low
Home Farm 4 (corn)	2023	14.4	0.1	0.0	1.13	1.44	Low
Home Farm 5 (grass)	2021	46.4	0.3	0.0	8.25	13.91	Low
Home Farm 5 (grass)	2022	36.9	0.3	0.0	8.25	11.07	Low
Home Farm 5 (grass)	2023	37.1	0.3	0.0	8.25	11.12	Low
Home Farm 6 (grass)	2021	31.1	0.1	0.2	6.60	7.46	Low
Home Farm 6 (grass)	2022	32.5	0.1	0.2	6.05	7.15	Low
Home Farm 6 (grass)	2023	33.8	0.1	0.2	5.77	7.10	Low
Scanlon big lot (corn)	2021	59.8	0.3	0.2	10.88	17.95	Low
Scanlon big lot (corn)	2022	79.9	0.3	0.2	10.88	23.97	Low
Scanlon big lot (corn)	2023	79.9	0.3	0.2	10.88	23.97	Low
Scanlon middle (corn)	2021	76.8	1.0	1.0	57.50	76.82	High
Scanlon middle (corn)	2022	93.4	1.0	1.0	57.50	93.38	High
Scanlon middle (corn)	2023	93.4	1.0	1.0	57.50	93.38	High
Scanlon back (corn)	2021	43.5	1.0	0.9	20.00	43.52	Low
Scanlon back (corn)	2022	63.7	1.0	0.9	20.00	63.68	Medium
Scanlon back (corn)	2023	63.7	1.0	0.9	20.00	63.68	Medium
Scanlon front (corn)	2021	76.8	0.1	0.0	5.75	7.68	Low
Scanlon front (corn)	2022	93.4	0.1	0.0	5.75	9.34	Low
Scanlon front (corn)	2023	93.4	0.1	0.0	5.75	9.34	Low
Left of Scanlon (grass)	2021	37.0	0.3	0.3	4.13	11.11	Low
Left of Scanlon (grass)	2022	37.5	0.3	0.2	4.13	11.25	Low
Left of Scanlon (grass)	2023	37.5	0.3	0.2	4.13	11.25	Low
EvergreenFarm 1 (grass)	2021	126.7	0.5	0.4	58.14	66.99	Medium
EvergreenFarm 1 (grass)	2022	126.7	0.5	0.4	58.14	66.99	Medium

Field	Crop Year	P Source	Dissolved P Transport	Particulate P Transport	P Index w/o P Apps	P Index w/ P Apps	P Loss Risk
EvergreenFarm 1 (grass)	2023	126.7	0.5	0.4	58.14	66.99	Medium
EvergreenFarm 2 (corn)	2021	175.6	1.0	1.0	156.25	175.57	Very High
EvergreenFarm 2 (corn)	2022	192.1	1.0	1.0	156.25	192.13	Very High
EvergreenFarm 2 (corn)	2023	192.1	1.0	1.0	156.25	192.13	Very High
EvergreenFarm 3 (corn)	2021	175.6	1.0	1.0	156.25	175.57	Very High
EvergreenFarm 3 (corn)	2022	192.1	1.0	1.0	156.25	192.13	Very High
EvergreenFarm 3 (corn)	2023	192.1	1.0	1.0	156.25	192.13	Very High
EvergreenFarm 4 (corn)	2021	289.3	0.9	0.8	243.00	260.39	Very High
EvergreenFarm 4 (corn)	2022	305.9	0.9	0.8	243.00	275.29	Very High
EvergreenFarm 4 (corn)	2023	305.9	0.9	0.8	243.00	275.29	Very High
EvergreenFarm 5 (corn)	2021	289.6	0.6	0.5	156.60	167.95	Very High
EvergreenFarm 5 (corn)	2022	305.7	0.6	0.5	156.60	177.32	Very High
EvergreenFarm 5 (corn)	2023	305.7	0.6	0.5	156.60	177.32	Very High
EvergreenFarm 7 (grass)	2021	126.7	0.7	0.6	73.86	85.10	High
EvergreenFarm 7 (grass)	2022	126.7	0.7	0.6	73.86	85.10	High
EvergreenFarm 7 (grass)	2023	126.7	0.7	0.6	73.86	85.10	High
Young Stock 1 (corn)	2021	45.1	0.3	0.0	5.63	13.52	Low
Young Stock 1 (corn)	2022	51.6	0.3	0.0	5.63	15.48	Low
Young Stock 1 (corn)	2023	52.2	0.3	0.0	5.63	15.66	Low
Young Stock 5 (corn)	2021	44.8	1.0	1.0	18.75	44.79	Low
Young Stock 5 (corn)	2022	67.1	1.0	1.0	18.75	67.11	Medium
Young Stock 5 (corn)	2023	67.7	1.0	1.0	18.75	67.75	Medium
Young Stock 6 (corn)	2021	45.0	1.0	0.9	18.75	45.01	Low
Young Stock 6 (corn)	2022	67.5	1.0	0.9	18.75	67.52	Medium
Young Stock 6 (corn)	2023	67.5	1.0	0.9	18.75	67.52	Medium
Young Stock 7 (grass)	2021	46.4	1.0	1.0	8.75	46.43	Low
Young Stock 7 (grass)	2022	47.9	1.0	1.0	8.75	47.87	Low
Young Stock 7 (grass)	2023	47.9	1.0	1.0	8.75	47.87	Low
Young Stock 9 (grass)	2021	46.4	0.1	0.1	0.88	4.64	Low
Young Stock 9 (grass)	2022	47.9	0.1	0.1	0.88	4.79	Low

Field	Crop Year	P Source	Dissolved P Transport	Particulate P Transport	P Index w/o P Apps	P Index w/ P Apps	P Loss Risk
Young Stock 9 (grass)	2023	47.9	0.1	0.1	0.88	4.79	Low
Flora (corn)	2021	52.3	0.3	0.0	7.88	15.69	Low
Flora (corn)	2022	74.6	0.3	0.0	7.88	22.38	Low
Flora (corn)	2023	74.8	0.3	0.0	7.88	22.45	Low
Keys (grass)	2021	18.1	0.3	0.0	2.25	5.44	Low
Keys (grass)	2022	18.3	0.3	0.0	2.25	5.49	Low
Keys (grass)	2023	18.3	0.3	0.0	2.25	5.49	Low
Krause 1 (grass)	2021	35.2	0.8	0.8	13.23	28.62	Low
Krause 1 (grass)	2022	35.2	0.8	0.8	13.23	28.62	Low
Krause 1 (grass)	2023	35.2	0.8	0.8	13.23	28.62	Low
Krause 3 (grass)	2021	33.9	1.0	1.0	15.00	33.91	Low
Krause 3 (grass)	2022	33.9	1.0	1.0	15.00	33.91	Low
Krause 3 (grass)	2023	33.9	1.0	1.0	15.00	33.91	Low
Krause 5 (corn)	2021	240.6	0.7	0.6	148.55	161.55	Very High
Krause 5 (corn)	2022	257.1	0.7	0.6	148.55	172.61	Very High
Krause 5 (corn)	2023	257.1	0.7	0.6	148.55	172.61	Very High
Krause 6 (grass)	2021	35.2	0.7	0.5	11.84	25.62	Low
Krause 6 (grass)	2022	35.2	0.7	0.5	11.84	25.62	Low
Krause 6 (grass)	2023	35.2	0.7	0.5	11.84	25.62	Low
Krause 7 (corn)	2021	211.7	0.1	0.0	19.25	21.17	Low
Krause 7 (corn)	2022	228.2	0.1	0.0	19.25	22.82	Low
Krause 7 (corn)	2023	209.0	0.1	0.0	19.25	20.90	Low
Krause 8 (corn)	2021	190.6	0.3	0.0	51.38	57.18	Medium
Krause 8 (corn)	2022	207.1	0.3	0.0	51.38	62.14	Medium
Krause 8 (corn)	2023	207.1	0.3	0.0	51.38	62.14	Medium
Krause 11 (fallo)	2021	*Unable to calculate P assessment. See notes for details.*					
Krause 11 (fallo)	2022	*Unable to calculate P assessment. See notes for details.*					
Krause 11 (fallo)	2023	*Unable to calculate P assessment. See notes for details.*					
Pultz 1 (corn)	2021	198.1	0.8	0.7	145.55	161.32	Very High
Pultz 1 (corn)	2022	214.7	0.8	0.7	145.55	174.84	Very High

Field	Crop Year	P Source	Dissolved P Transport	Particulate P Transport	P Index w/o P Apps	P Index w/ P Apps	P Loss Risk
Pultz 1 (corn)	2023	214.7	0.8	0.7	145.55	174.84	Very High
Pultz 2 (grass)	2021	26.2	0.1	0.2	4.13	5.77	Low
Pultz 2 (grass)	2022	26.2	0.1	0.2	3.94	5.50	Low
Pultz 2 (grass)	2023	26.2	0.1	0.2	3.75	5.24	Low
ScanlonPumpkLot (corn)	2021	54.4	0.1	0.0	3.13	5.44	Low
ScanlonPumpkLot (corn)	2022	74.2	0.1	0.0	3.13	7.42	Low
ScanlonPumpkLot (corn)	2023	74.2	0.1	0.0	3.13	7.42	Low
PigeonSwamp1 (corn)	2021	35.1	0.1	0.0	1.00	3.51	Low
PigeonSwamp1 (corn)	2022	53.7	0.1	0.0	1.00	5.37	Low
PigeonSwamp1 (corn)	2023	53.7	0.1	0.0	1.00	5.37	Low
BoggLnAbovePond (grass)	2021	126.7	0.9	0.8	95.86	110.44	Very High
BoggLnAbovePond (grass)	2022	126.7	0.9	0.8	95.86	110.44	Very High
BoggLnAbovePond (grass)	2023	126.7	0.9	0.8	95.86	110.44	Very High
BoggLn Valley1 (corn)	2021	191.0	0.9	0.8	154.13	171.92	Very High
BoggLn Valley1 (corn)	2022	208.0	0.9	0.8	154.13	187.17	Very High
BoggLn Valley1 (corn)	2023	208.0	0.9	0.8	154.13	187.17	Very High
Bogg Ln 1 (grass)	2021	28.5	1.0	1.0	10.00	28.48	Low
Bogg Ln 1 (grass)	2022	33.8	1.0	1.0	10.00	33.76	Low
Bogg Ln 1 (grass)	2023	33.8	1.0	1.0	10.00	33.76	Low
Bogg Ln 2 (grass)	2021	28.5	1.0	1.0	10.00	28.48	Low
Bogg Ln 2 (grass)	2022	33.8	1.0	1.0	10.00	33.76	Low
Bogg Ln 2 (grass)	2023	33.8	1.0	1.0	10.00	33.76	Low
10acre Lot (corn)	2021	42.3	0.1	0.2	3.75	8.45	Low
10acre Lot (corn)	2022	62.4	0.1	0.2	3.75	12.49	Low
10acre Lot (corn)	2023	62.4	0.1	0.2	3.75	12.49	Low
LowBabcockHill1 (grass)	2021	32.8	1.0	0.0	10.00	32.80	Low
LowBabcockHill1 (grass)	2022	31.0	1.0	0.0	10.00	31.00	Low
LowBabcockHill1 (grass)	2023	31.0	1.0	0.0	10.00	31.00	Low
LowBabcockHill2 (corn)	2021	28.5	1.0	0.6	5.00	28.52	Low
LowBabcockHill2 (corn)	2022	48.7	1.0	0.6	5.00	48.68	Low

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LowBabcockHill2 (corn)	2023	48.7	1.0	0.6	5.00	48.68	Low
LowBabcockHill3 (grass)	2021	32.8	0.9	0.6	8.71	28.56	Low
LowBabcockHill3 (grass)	2022	30.9	0.9	0.6	8.71	26.97	Low
LowBabcockHill3 (grass)	2023	30.9	0.9	0.6	8.71	26.97	Low
Kick Hill Lot (corn)	2021	174.2	0.1	0.0	17.25	17.42	Low
Kick Hill Lot (corn)	2022	175.6	0.1	0.0	17.25	17.56	Low
Kick Hill Lot (corn)	2023	175.6	0.1	0.0	17.25	17.56	Low
McCaw (corn)	2021	31.2	0.3	0.2	3.38	9.35	Low
McCaw (corn)	2022	31.3	0.3	0.2	3.38	9.40	Low
McCaw (corn)	2023	31.3	0.3	0.2	3.38	9.40	Low
Briggs Rd (corn)	2021	378.1	0.3	0.2	107.63	113.42	Very High
Briggs Rd (corn)	2022	394.6	0.3	0.2	107.63	118.39	Very High
Briggs Rd (corn)	2023	394.6	0.3	0.2	107.63	118.39	Very High
Bender 1 (grass)	2021	132.4	0.2	0.1	19.25	20.81	Low
Bender 1 (grass)	2022	132.4	0.2	0.1	19.25	20.81	Low
Bender 1 (grass)	2023	132.4	0.2	0.1	19.25	20.81	Low
Bender 2 (grass)	2021	132.4	0.3	0.1	36.75	39.71	Low
Bender 2 (grass)	2022	132.4	0.3	0.1	36.75	39.71	Low
Bender 2 (grass)	2023	132.4	0.3	0.1	36.75	39.71	Low
Bender 7 (corn)	2021	216.8	0.1	0.0	19.75	21.68	Low
Bender 7 (corn)	2022	233.4	0.1	0.0	19.75	23.34	Low
Bender 7 (corn)	2023	233.4	0.1	0.0	19.75	23.34	Low
Bender 9 (fallo)	2021	197.5	0.3	0.0	59.25	59.25	Medium
Bender 9 (fallo)	2022	197.5	0.3	0.0	59.25	59.25	Medium
Bender 9 (fallo)	2023	197.5	0.3	0.0	59.25	59.25	Medium
Bender 11 (fallo)	2021	197.5	0.3	0.0	59.25	59.25	Medium
Bender 11 (fallo)	2022	197.5	0.3	0.0	59.25	59.25	Medium
Bender 11 (fallo)	2023	197.5	0.3	0.0	59.25	59.25	Medium
Bender 19 (grass)	2021	132.4	0.3	0.1	36.75	39.72	Low
Bender 19 (grass)	2022	132.4	0.3	0.1	36.75	39.72	Low

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Bender 19 (grass)	2023	132.4	0.3	0.1	36.75	39.72	Low
Stebner 1 (grass)	2021	54.3	0.3	0.0	13.13	16.29	Low
Stebner 1 (grass)	2022	54.3	0.3	0.0	13.13	16.29	Low
Stebner 1 (grass)	2023	54.3	0.3	0.0	13.13	16.29	Low
Stebner 2 (corn)	2021	155.7	0.3	0.0	40.88	46.70	Low
Stebner 2 (corn)	2022	172.1	0.3	0.0	40.88	51.62	Medium
Stebner 2 (corn)	2023	171.3	0.3	0.0	40.88	51.40	Medium
Stebner 3 (grass)	2021	54.3	0.3	0.1	13.13	16.29	Low
Stebner 3 (grass)	2022	54.3	0.3	0.1	13.13	16.29	Low
Stebner 3 (grass)	2023	54.3	0.3	0.1	13.13	16.29	Low
Stebner 4 (grass)	2021	54.3	0.3	0.1	13.13	16.30	Low
Stebner 4 (grass)	2022	54.3	0.3	0.0	13.13	16.30	Low
Stebner 4 (grass)	2023	54.3	0.3	0.0	13.13	16.30	Low
Stebner 5 (corn)	2021	1,129.5	0.3	0.0	333.00	338.84	Very High
Stebner 5 (corn)	2022	1,145.9	0.3	0.0	333.00	343.76	Very High
Stebner 5 (corn)	2023	1,145.1	0.3	0.0	333.00	343.54	Very High
Xmas Tree Corn (corn)	2021	31.4	0.1	0.0	0.63	3.14	Low
Xmas Tree Corn (corn)	2022	49.9	0.1	0.0	0.63	4.99	Low
Xmas Tree Corn (corn)	2023	49.9	0.1	0.0	0.63	4.99	Low
Babcock Hill 1 (grass)	2021	19.7	0.1	0.3	2.81	4.92	Low
Babcock Hill 1 (grass)	2022	32.2	0.1	0.3	2.81	8.06	Low
Babcock Hill 1 (grass)	2023	32.2	0.1	0.2	2.70	7.74	Low
Babcock Hill 2 (corn)	2021	73.1	0.1	0.0	5.38	7.31	Low
Babcock Hill 2 (corn)	2022	89.6	0.1	0.0	5.38	8.96	Low
Babcock Hill 2 (corn)	2023	70.3	0.1	0.0	5.38	7.03	Low
Babcock Hill 3 (grass)	2021	27.1	0.9	0.7	17.41	25.20	Low
Babcock Hill 3 (grass)	2022	39.7	0.9	0.7	17.41	36.89	Low
Babcock Hill 3 (grass)	2023	39.7	0.9	0.7	17.41	36.89	Low
Babcock Hill 6 (corn)	2021	90.7	0.3	0.0	21.38	27.20	Low
Babcock Hill 6 (corn)	2022	107.0	0.3	0.0	21.38	32.10	Low

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Babcock Hill 6 (corn)	2023	107.0	0.3	0.0	21.38	32.10	Low
Babcock Hill 10 (corn)	2021	166.8	1.0	1.0	147.50	166.82	Very High
Babcock Hill 10 (corn)	2022	183.4	1.0	1.0	147.50	183.38	Very High
Babcock Hill 10 (corn)	2023	183.4	1.0	1.0	147.50	183.38	Very High
Babcock Hill 11 (corn)	2021	460.6	1.0	1.0	441.25	460.57	Very High
Babcock Hill 11 (corn)	2022	477.1	1.0	1.0	441.25	477.13	Very High
Babcock Hill 11 (corn)	2023	477.1	1.0	1.0	441.25	477.13	Very High
Madley Rd 1 (grass)	2021	36.1	0.1	0.3	2.81	9.03	Low
Madley Rd 1 (grass)	2022	35.0	0.1	0.2	2.70	8.40	Low
Madley Rd 1 (grass)	2023	35.0	0.1	0.2	2.70	8.40	Low
Madley Rd 2 (grass)	2021	43.6	0.3	0.2	5.63	13.09	Low
Madley Rd 2 (grass)	2022	42.5	0.3	0.2	5.63	12.75	Low
Madley Rd 2 (grass)	2023	42.5	0.3	0.2	5.63	12.75	Low
Madley Rd 3 (grass)	2021	40.1	1.0	1.0	25.00	40.12	Low
Madley Rd 3 (grass)	2022	40.1	1.0	1.0	25.00	40.12	Low
Madley Rd 3 (grass)	2023	41.0	1.0	1.0	25.00	41.00	Low
Madley Bozworth (grass)	2021	40.1	1.0	1.0	25.00	40.12	Low
Madley Bozworth (grass)	2022	40.1	1.0	1.0	25.00	40.12	Low
Madley Bozworth (grass)	2023	40.1	1.0	1.0	25.00	40.12	Low
Madley Rd 4 (grass)	2021	43.6	1.0	1.0	18.75	43.63	Low
Madley Rd 4 (grass)	2022	42.5	1.0	1.0	18.75	42.51	Low
Madley Rd 4 (grass)	2023	42.5	1.0	1.0	18.75	42.51	Low
Waldens 1 (corn)	2021	209.7	1.0	1.0	191.25	209.73	Very High
Waldens 1 (corn)	2022	225.6	1.0	1.0	191.25	225.57	Very High
Waldens 1 (corn)	2023	225.6	1.0	1.0	191.25	225.57	Very High
Waldens 3 (corn)	2021	307.2	0.3	0.2	86.63	92.17	High
Waldens 3 (corn)	2022	323.1	0.3	0.2	86.63	96.92	High
Waldens 3 (corn)	2023	323.1	0.3	0.2	86.63	96.92	High
Waldens 6 (corn)	2021	167.2	0.3	0.2	44.63	50.17	Medium
Waldens 6 (corn)	2022	183.1	0.3	0.2	44.63	54.92	Medium

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Waldens 6 (corn)	2023	183.1	0.3	0.2	44.63	54.92	Medium
Waldens 7 (corn)	2021	162.2	0.3	0.2	43.13	48.67	Low
Waldens 7 (corn)	2022	178.1	0.3	0.2	43.13	53.42	Medium
Waldens 7 (corn)	2023	178.1	0.3	0.2	43.13	53.42	Medium
Waldens 10 (corn)	2021	319.7	0.1	0.2	60.25	63.95	Medium
Waldens 10 (corn)	2022	335.6	0.1	0.2	60.25	67.11	Medium
Waldens 10 (corn)	2023	335.6	0.1	0.2	60.25	67.11	Medium
Waldens 11 (corn)	2021	384.7	0.3	0.2	109.88	115.42	Very High
Waldens 11 (corn)	2022	400.6	0.3	0.2	109.88	120.17	Very High
Waldens 11 (corn)	2023	400.6	0.3	0.2	109.88	120.17	Very High
Waldens 12 (corn)	2021	384.7	0.3	0.2	109.88	115.42	Very High
Waldens 12 (corn)	2022	400.6	0.3	0.2	109.88	120.17	Very High
Waldens 12 (corn)	2023	400.6	0.3	0.2	109.88	120.17	Very High
Waldens 45 (corn)	2021	37.2	0.3	0.2	5.63	11.17	Low
Waldens 45 (corn)	2022	53.1	0.3	0.2	5.63	15.92	Low
Waldens 45 (corn)	2023	53.1	0.3	0.2	5.63	15.92	Low
Waldens 14 (corn)	2021	384.7	0.3	0.2	109.88	115.42	Very High
Waldens 14 (corn)	2022	400.6	0.3	0.2	109.88	120.17	Very High
Waldens 14 (corn)	2023	400.6	0.3	0.2	109.88	120.17	Very High
Segars 1 (corn)	2021	172.6	1.0	1.0	152.50	172.59	Very High
Segars 1 (corn)	2022	189.1	1.0	1.0	152.50	189.11	Very High
Segars 1 (corn)	2023	189.1	1.0	1.0	152.50	189.11	Very High
Segars 2 (corn)	2021	42.2	1.0	1.0	22.50	42.24	Low
Segars 2 (corn)	2022	59.2	1.0	1.0	22.50	59.16	Medium
Segars 2 (corn)	2023	59.2	1.0	1.0	22.50	59.16	Medium
Segars 3 (grass)	2021	35.7	1.0	1.0	22.50	35.70	Low
Segars 3 (grass)	2022	31.8	1.0	1.0	22.50	31.80	Low
Segars 3 (grass)	2023	43.2	1.0	1.0	22.50	43.17	Low
Segars 4 (grass)	2021	35.7	0.7	0.9	19.13	30.35	Low
Segars 4 (grass)	2022	35.7	0.7	0.9	19.13	30.35	Low

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Segars 4 (grass)	2023	35.7	0.7	0.9	19.13	30.35	Low
Segars 6 (grass)	2021	43.9	1.0	1.0	6.25	43.93	Low
Segars 6 (grass)	2022	30.0	1.0	1.0	6.25	30.01	Low
Segars 6 (grass)	2023	30.0	1.0	1.0	6.25	30.01	Low
Segars 7 (grass)	2021	43.9	1.0	1.0	6.25	43.93	Low
Segars 7 (grass)	2022	30.0	1.0	1.0	6.25	30.01	Low
Segars 7 (grass)	2023	17.0	1.0	1.0	6.25	17.05	Low
Segars 8 (grass)	2021	99.0	1.0	1.0	61.25	98.97	High
Segars 8 (grass)	2022	71.4	1.0	1.0	61.25	71.45	Medium
Segars 8 (grass)	2023	71.4	1.0	1.0	61.25	71.45	Medium
Segars 9 (grass)	2021	42.0	1.0	1.0	28.75	41.95	Low
Segars 9 (grass)	2022	42.0	1.0	1.0	28.75	41.95	Low
Segars 9 (grass)	2023	42.0	1.0	1.0	28.75	41.95	Low
Segars 10 (grass)	2021	42.0	0.3	0.2	8.63	12.59	Low
Segars 10 (grass)	2022	38.0	0.3	0.2	8.63	11.41	Low
Segars 10 (grass)	2023	49.7	0.3	0.2	8.63	14.91	Low
Segars 11 (grass)	2021	146.4	0.1	0.2	32.70	35.15	Low
Segars 11 (grass)	2022	146.4	0.1	0.2	31.34	33.68	Low
Segars 11 (grass)	2023	146.4	0.1	0.2	31.34	33.68	Low
Segars 12 (grass)	2021	171.4	1.0	1.0	161.25	171.45	Very High
Segars 12 (grass)	2022	171.4	1.0	1.0	161.25	171.45	Very High
Segars 12 (grass)	2023	171.4	1.0	1.0	161.25	171.45	Very High
Segars 13 (grass)	2021	158.9	1.0	1.0	148.75	158.95	Very High
Segars 13 (grass)	2022	158.9	1.0	1.0	148.75	158.95	Very High
Segars 13 (grass)	2023	148.8	1.0	1.0	148.75	148.75	Very High
Carneys 1 (corn)	2021	71.0	0.3	0.2	15.38	21.30	Low
Carneys 1 (corn)	2022	87.9	0.3	0.2	15.38	26.37	Low
Carneys 1 (corn)	2023	88.3	0.3	0.2	15.38	26.48	Low
Carneys 2 (corn)	2021	71.0	0.3	0.2	15.38	21.30	Low
Carneys 2 (corn)	2022	87.9	0.3	0.2	15.38	26.37	Low

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Carneys 2 (corn)	2023	87.9	0.3	0.2	15.38	26.37	Low
Carneys 3 (corn)	2021	99.7	1.0	1.0	80.00	99.74	High
Carneys 3 (corn)	2022	116.7	1.0	1.0	80.00	116.66	Very High
Carneys 3 (corn)	2023	116.9	1.0	1.0	80.00	116.95	Very High
Carneys 4 (grass)	2021	46.5	0.4	0.3	3.63	19.28	Low
Carneys 4 (grass)	2022	29.2	0.4	0.3	3.63	12.10	Low
Carneys 4 (grass)	2023	29.2	0.4	0.3	3.63	12.10	Low
Carneys 5 (grass)	2021	46.5	1.0	1.0	8.75	46.53	Low
Carneys 5 (grass)	2022	29.3	1.0	1.0	8.75	29.31	Low
Carneys 5 (grass)	2023	29.2	1.0	1.0	8.75	29.21	Low
Synagogue Rd 3 (grass)	2021	141.7	1.0	1.0	125.00	141.74	Very High
Synagogue Rd 3 (grass)	2022	141.7	1.0	1.0	125.00	141.74	Very High
Synagogue Rd 3 (grass)	2023	141.7	1.0	1.0	125.00	141.74	Very High
Synagogue Rd 4 (grass)	2021	141.7	1.0	1.0	125.00	141.74	Very High
Synagogue Rd 4 (grass)	2022	141.7	1.0	1.0	125.00	141.74	Very High
Synagogue Rd 4 (grass)	2023	141.7	1.0	1.0	125.00	141.74	Very High
Synagogue Rd 5 (grass)	2021	135.3	0.5	0.6	75.00	81.18	High
Synagogue Rd 5 (grass)	2022	141.7	0.5	0.6	75.00	85.04	High
Synagogue Rd 5 (grass)	2023	141.7	0.5	0.6	75.00	85.04	High
Synagogue Rd 6 (grass)	2021	141.7	0.1	0.2	25.00	28.35	Low
Synagogue Rd 6 (grass)	2022	141.7	0.1	0.2	25.00	28.35	Low
Synagogue Rd 6 (grass)	2023	141.7	0.1	0.2	25.00	28.35	Low
Synagogue Rd 9 (grass)	2021	141.7	1.0	1.0	125.00	141.74	Very High
Synagogue Rd 9 (grass)	2022	141.7	1.0	1.0	125.00	141.74	Very High
Synagogue Rd 9 (grass)	2023	141.7	1.0	1.0	125.00	141.74	Very High
M City Rd 1 (corn)	2021	213.5	1.0	1.0	193.75	213.49	Very High
M City Rd 1 (corn)	2022	230.4	1.0	1.0	193.75	230.41	Very High
M City Rd 1 (corn)	2023	230.8	1.0	1.0	193.75	230.80	Very High
M City Rd 2 (corn)	2021	248.5	0.6	0.7	169.28	183.88	Very High
M City Rd 2 (corn)	2022	265.4	0.6	0.7	169.28	196.40	Very High

Field	Crop Year	P Source	Dissolved P Transport	Particulate P Transport	P Index w/o P Apps	P Index w/ P Apps	P Loss Risk
M City Rd 2 (corn)	2023	265.5	0.6	0.7	169.28	196.50	Very High
M City Rd 3 (corn)	2021	248.5	1.0	0.2	228.75	248.49	Very High
M City Rd 3 (corn)	2022	265.4	1.0	0.2	228.75	265.41	Very High
M City Rd 3 (corn)	2023	265.4	1.0	0.2	228.75	265.41	Very High
Winery (grass)	2021	42.4	0.1	0.2	7.70	9.34	Low
Winery (grass)	2022	42.4	0.1	0.2	7.35	8.91	Low
Winery (grass)	2023	42.4	0.1	0.2	7.35	8.91	Low
Randazzo (grass)	2021	29.8	0.1	0.2	2.59	6.86	Low
Randazzo (grass)	2022	20.5	0.1	0.2	2.36	4.32	Low
Randazzo (grass)	2023	20.5	0.1	0.2	2.36	4.32	Low
Chappel Rd Corn (corn)	2021	42.3	0.1	0.2	3.75	8.45	Low
Chappel Rd Corn (corn)	2022	62.4	0.1	0.2	3.75	12.49	Low
Chappel Rd Corn (corn)	2023	62.4	0.1	0.2	3.75	12.49	Low
Chappel Rd Gras (grass)	2021	38.1	0.1	0.2	6.60	9.13	Low
Chappel Rd Gras (grass)	2022	38.1	0.1	0.2	6.60	9.13	Low
Chappel Rd Gras (grass)	2023	38.1	0.1	0.2	6.60	9.13	Low
Xmas Tree Grass (grass)	2021	38.1	0.1	0.2	6.60	9.13	Low
Xmas Tree Grass (grass)	2022	38.1	0.1	0.2	6.60	9.13	Low
Xmas Tree Grass (grass)	2023	38.1	0.1	0.2	6.60	9.13	Low

Notes:
Field Krause 11 (fallo):
Error: RUSLE2 soil loss not available (A crop yield goal is not entered.) and water erosion not entered.

5.4. Additional Field Data Required by Risk Assessment Procedure(s)

Connecticut Phosphorus Index

Field	Distance to Water (ft)	Type of Water	Concentrated Flow
Strauss 2 (corn)	0	Perennial stream	No
Strauss 4 (grass)	140	Pond	No
Strauss 6 (corn)	130	Perennial stream	No
Strauss 7 (corn)	275	Pond	No
Strauss 12 (grass)	25	Perennial stream	No
Strauss 13 (corn)	50	Perennial stream	No
Strauss 5 (corn)	120	Perennial stream	No
Bender/V.Hill3A (corn)	600	Pond	No
Bender/V.Hill3B (grass)	600	Pond	No
Bender/V.Hill 4 (grass)	450	Pond	No
Bender/V.Hill 5 (corn)	740	Pond	No
Bender/V.Hill 6 (corn)	0	Pond	No
Flegerts 1 (corn)	700	Intermittent stream	No
Flegerts 2 (corn)	100	Perennial stream	No
Flegerts 3 (corn)	230	Perennial stream	No
Flegerts 4 (corn)	65	Pond	No
Flegerts 5 (corn)	680	Intermittent stream	Yes
Flegerts 6 (corn)	280	Perennial stream	No
Home Farm 1 (corn)	300	Pond	No
Home Farm 2 (corn)	300	Pond	Yes
Home Farm 4 (corn)	750	Intermittent stream	No

Field	Distance to Water (ft)	Type of Water	Concentrated Flow
Home Farm 5 (grass)	250	Intermittent stream	No
Home Farm 6 (grass)	200	Intermittent stream	No
Scanlon big lot (corn)	300	Pond	Yes
Scanlon middle (corn)	30	Pond	No
Scanlon back (corn)	50	Intermittent stream	No
Scanlon front (corn)	550	Pond	No
Left of Scanlon (grass)	250	Perennial stream	No
EvergreenFarm 1 (grass)	125	Pond	No
EvergreenFarm 2 (corn)	30	Perennial stream	No
EvergreenFarm 3 (corn)	0	Perennial stream	No
EvergreenFarm 4 (corn)	100	Perennial stream	No
EvergreenFarm 5 (corn)	180	Perennial stream	No
EvergreenFarm 7 (grass)	100	Intermittent stream	No
Young Stock 1 (corn)	950	Perennial stream	No
Young Stock 5 (corn)	0	Pond	No
Young Stock 6 (corn)	50	Intermittent stream	No
Young Stock 7 (grass)	10	Intermittent stream	No
Young Stock 9 (grass)	475	Perennial stream	No
Flora (corn)	250	Intermittent stream	No
Keys (grass)	1,400	Perennial stream	No

Field	Distance to Water (ft)	Type of Water	Concentrated Flow
Krause 1 (grass)	75	Intermittent stream	No
Krause 3 (grass)	0	Pond	No
Krause 5 (corn)	100	Pond	No
Krause 6 (grass)	125	Intermittent stream	No
Krause 7 (corn)	750	Intermittent stream	No
Krause 8 (corn)	850	Intermittent stream	No
Krause 11 (fallo)	175	Pond	No
Pultz 1 (corn)	75	Intermittent stream	No
Pultz 2 (grass)	300	Perennial stream	Yes
ScanlonPumpkLot (corn)	725	Pond	No
PigeonSwamp1 (corn)	1,300	Intermittent stream	No
BoggLnAbovePond (grass)	65	Pond	No
BoggLn Valley1 (corn)	100	Perennial stream	No
Bogg Ln 1 (grass)	0	Intermittent stream	No
Bogg Ln 2 (grass)	25	Perennial stream	No
10acre Lot (corn)	700	Perennial stream	Yes
LowBabcockHill 1 (grass)	200	Pond	No
LowBabcockHill 2 (corn)	100	Intermittent stream	No
LowBabcockHill 3 (grass)	100	Intermittent stream	No
Kick Hill Lot (corn)	650	Intermittent stream	No
McCaw (corn)	200	Intermittent stream	Yes
Briggs Rd (corn)	225	Intermittent stream	Yes
Bender 1 (grass)	190	Pond	No
Bender 2 (grass)	450	Intermittent stream	No

Field	Distance to Water (ft)	Type of Water	Concentrated Flow
Bender 7 (corn)	900	Intermittent stream	No
Bender 9 (fallo)	925	Pond	No
Bender 11 (fallo)	1,000	Pond	No
Bender 19 (grass)	750	Pond	No
Stebner 1 (grass)	400	Pond	No
Stebner 2 (corn)	1,100	Pond	No
Stebner 3 (grass)	400	Pond	No
Stebner 4 (grass)	400	Intermittent stream	No
Stebner 5 (corn)	975	Pond	No
Xmas Tree Corn (corn)	275	Pond	No
Babcock Hill 1 (grass)	700	Pond	Yes
Babcock Hill 2 (corn)	275	Pond	No
Babcock Hill 3 (grass)	90	Pond	No
Babcock Hill 6 (corn)	375	Intermittent stream	No
Babcock Hill 10 (corn)	10	Pond	No
Babcock Hill 11 (corn)	10	Intermittent stream	No
Madley Rd 1 (grass)	1,000	Pond	No
Madley Rd 2 (grass)	720	Pond	No
Madley Rd 3 (grass)	70	Pond	No
Madley Bozworth (grass)	50	Pond	No
Madley Rd 4 (grass)	0	Pond	No

Field	Distance to Water (ft)	Type of Water	Concentrated Flow
Waldens 1 (corn)	55	Perennial stream	Yes
Waldens 3 (corn)	625	Perennial stream	Yes
Waldens 6 (corn)	325	Perennial stream	Yes
Waldens 7 (corn)	900	Perennial stream	Yes
Waldens 10 (corn)	750	Perennial stream	Yes
Waldens 11 (corn)	800	Perennial stream	Yes
Waldens 12 (corn)	580	Perennial stream	Yes
Waldens 45 (corn)	625	Perennial stream	Yes
Waldens 14 (corn)	700	Perennial stream	Yes
Segars 1 (corn)	30	Perennial stream	Yes
Segars 2 (corn)	75	Perennial stream	Yes
Segars 3 (grass)	0	Perennial stream	No
Segars 4 (grass)	150	Perennial stream	No
Segars 6 (grass)	0	Pond	No
Segars 7 (grass)	20	Perennial stream	No
Segars 8 (grass)	0	Perennial stream	No
Segars 9 (grass)	75	Perennial stream	No
Segars 10 (grass)	720	Perennial stream	No
Segars 11 (grass)	900	Perennial stream	No
Segars 12 (grass)	0	Perennial stream	No
Segars 13 (grass)	0	Perennial stream	No
Carneys 1 (corn)	450	Perennial stream	Yes
Carneys 2 (corn)	375	Perennial stream	Yes

Field	Distance to Water (ft)	Type of Water	Concentrated Flow
Carneys 3 (corn)	50	Pond	Yes
Carneys 4 (grass)	180	Pond	No
Carneys 5 (grass)	75	Perennial stream	No
Synagogue Rd 3 (grass)	220	Perennial stream	No
Synagogue Rd 4 (grass)	15	Perennial stream	No
Synagogue Rd 5 (grass)	200	Perennial stream	No
Synagogue Rd 6 (grass)	550	Perennial stream	No
Synagogue Rd 9 (grass)	75	Perennial stream	No
M City Rd 1 (corn)	75	Perennial stream	Yes
M City Rd 2 (corn)	165	Perennial stream	Yes
M City Rd 3 (corn)	440	Perennial stream	Yes
Winery (grass)	325	Pond	No
Randazzo (grass)	400	Intermittent stream	No
Chappel Rd Corn (corn)	500	Pond	Yes
Chappel Rd Gras (grass)	500	Pond	No
Xmas Tree Grass (grass)	225	Pond	No

5.5. Available Water Holding Capacity

This table shall be used to determine the Available Water Capacity (AWC) at the time of application, and the maximum liquid volume (in gallons) that can be applied. To determine the AWC, use a soil probe or similar device to evaluate the soil to a depth of 8 inches.

Available Moisture in the Soil	Sands and Loamy Sands	Sandy Loam and Fine Sandy Loam	Very Fine Sandy Loam, Loam, Silt Loam, Silty Clay Loam, Clay Loam, Sandy Clay Loam	Sandy Clay, Silty Clay, Clay
< 25% Soil Moisture	Dry, loose and single-grained; flows through fingers.	Dry and loose; flows through fingers.	Powdery dry; in some places slightly crusted but breaks down easily into powder.	Hard, baked and cracked; has loose crumbs on surface in some places.
Amount to Reach AWC	20,000 gal/ac	27,000 gal/ac	40,000 gal/ac	27,000 gal/ac
25 to 50% Soil Moisture	Appears to be dry; does not form a ball under pressure.	Appears to be dry; does not form a ball under pressure.	Somewhat crumbly but holds together under pressure.	Somewhat pliable; balls under pressure.
Amount to Reach AWC	15,000 gal/ac	20,000 gal/ac	30,000 gal/ac	20,000 gal/ac
50 to 75% Soil Moisture	Appears to be dry; does not form a ball under pressure.	Balls under pressure but seldom holds together.	Forms a ball under pressure; somewhat plastic; slicks slightly under pressure.	Forms a ball; ribbons out between thumb and forefinger.
Amount to Reach AWC	10,000 gal/ac	13,000 gal/ac	20,000 gal/ac	13,000 gal/ac
75% to Field Capacity	Sticks together slightly; may form a weak ball under pressure.	Forms a weak ball that breaks easily, does not stick.	Forms ball; very pliable; slicks readily if relatively high in clay.	Ribbons out between fingers easily; has a slick feeling.
Amount to Reach AWC	5,000 gal/ac	7,000 gal/ac	11,000 gal/ac	7,000 gal/ac
100% Field Capacity	On squeezing, no free water appears on soil, but wet outline of ball on hand.	On squeezing, no free water appears on soil, but wet outline of ball on hand.	On squeezing, no free water appears on soil, but wet outline of ball on hand.	On squeezing, no free water appears on soil, but wet outline of ball on hand.
Above Field Capacity	Free water appears when soil is bounced in hand.	Free water is released with kneading.	Free water can be squeezed out.	Puddles- water forms on surface.

5.6. Special Manure Application Criteria

1) Manure Application on Steep Fields

Wastes are not to be applied to cropland over 15% slopes or to pastures/hay land over 20% slopes unless one of the following precautions is taken:

a) Immediate incorporation or injection with operations done on the contour, UNLESS the field has 80% ground cover (residue and/or canopy).
b) Applications are timed during periods of lower runoff and/or rainfall (Late May to Mid-October).
c) Apply low rates through split applications (separated by rainfall events). Apply no more than 10 wet tons/acre for solid manure/wastes; or 5000 gallons/acre for liquid manure/wastes.
d) The field is established and managed in contour strips with alternate strips in grass or legume.

2) Manure Application on Fields Subject to Flooding

Manure is not to be land-applied on soils that are frequently flooded during the period when flooding is expected unless incorporated immediately. Avoid surface applications during periods of heavy rain and flooding.

3) General Liquid Manure Applications

For liquid wastes, the application rate is to be adjusted to the most limiting factor to avoid ponding, surface runoff, subsurface drainage (tile) discharge, the nutrient needs of the field, or the nitrogen or phosphorus risks for the field. The best method is to apply liquid manure to an established crop or cover crop where the roots will plug many of the macropores and uptake much of the liquid. The total application is not to exceed the field capacity of the upper 8 inches of soil. See the table in Section 5.5 - *Available Water Capacity (AWC) Practical Soil Moisture Interpretations for Various Soils Textures and Conditions to Determine Liquid Waste Volume Applications not to exceed AWC* - to determine AWC and the amount (volume) that can be applied to reach the AWC. The actual application rate shall be adjusted during application to avoid ponding or runoff. Bare/Crusted soils may require some tillage to improve infiltration.

4) Liquid Manure Application – Tile Drained Fields

Fields, or areas of fields, that are subsurface (TILE) drained require additional precautions. When liquid wastes are applied to fields with subsurface (TILE) drains, the liquid can follow soil macropores directly to the tile drains creating a surface water pollution hazard from direct tile discharge. A field is considered subsurface (tile) drained if ⅓ or more of the field is subsurface (tiled) drained; however, even a field with one subsurface drainage line may present a risk of manure/wastewater movement to subsurface drains and cause a direct discharge.

a) Do not apply application rates (volume) that would exceed the lesser of the AWC in the upper 8" or 13,000 gallons/acre per application.
b) The best method is to apply liquid manure to an established crop or cover crop where the roots will plug many of the macropores and uptake much of the liquid. If applying manure to a field with no established crop or cover crop, use a tool (AERWAY or similar tool) that can disrupt/close (using horizontal fracturing) the preferential flow paths (worm holes, cracks, root channels) in the soil, or till the surface of the soil 3" to 5" deep to a condition that will absorb the liquid wastes prior to manure application. The purpose is to have the surface soil act as a sponge to soak up the liquid manure and keep it out of preferential flow channels. This is especially important if shallow tile are present (< 2 feet deep). Any pre-application tillage should leave as much residue as possible on the soil surface. The adsorption of liquid manure by the soil in the root zone will minimize nitrogen loss and the manure/nutrient runoff potential. For perennial crops (hay or pasture), or continuous no till fields where tillage is not an option, all tile outlets from the

application area are to be plugged prior to application. This criterion may be waived if the producer can verify there is no prior history of manure discharge via subsurface drains. However, if there is a discharge the producer is liable for damages and may risk being classified as a CAFO.

c) If injection is used, inject only deep enough to cover the manure with soil. Till the soil at least 3" below the depth of injection prior to application, or all tile outlets from the application area are to be plugged prior to application. This criterion may be waived if the producer can verify there is no prior history of manure discharge via subsurface drains. However, if there is a discharge the producer is liable for damages and may risk being classified as a CAFO.

d) In addition to tillage prior to surface liquid waste application or injection, install in-line tile flow control structures or inflatable tile plugs that can mechanically stop or regulate tile flow either prior to application, or have on site if needed to stop tile flow. Use caution not to back tile water where it may impair the functioning of an offsite subsurface drainage system. This criterion may be waived if the producer can verify there is no prior history of manure discharge via subsurface drains. However, if there is a discharge the producer is liable for damages and may risk being classified as a CAFO.

e) Repair broken tile or blow holes prior to application.

5) Manure Application on Fields with "Systematic Surface Drainage"

Fields or areas of fields that have systematic "surface drainage" systems (e.g. shallow surface drains spaced 100' to 200' apart). These "internal" surface drains are considered concentrated flow areas. However, if special precautions are taken, manure can be applied in the surface drains with minimal risk of surface runoff. THIS DOES NOT APPLY TO THE COLLECTOR SURFACE DRAINS (mains) OR DRAINS BORDERING THE FIELDS.

The following special manure application techniques shall be used:

a) Till the surface at least 3" to 5" deep prior to liquid manure surface application. For SOLID manure till either prior to application or incorporate within 24 hours. This can be done with a heavy disk, chisel plow, plow, field cultivator, AERWAY tool, or similar tool that can provide "full-width" soil disturbance to a depth of 3" to 5".

b) Surface apply the liquid manure uniformly over the entire soil surface on the freshly tilled soil. The purpose of the surface application on the freshly tilled soil is to allow the liquid manure to be soaked/absorbed into the entire 3" to 5" of loose soil surface.

c) For fields that have no subsurface drainage, the liquid manure can be injected directly with no prior tillage.

d) Limit LIQUID application rates to 13,000 gallons/acre or less per application.

6) Minimum Ground Cover for Manure Applications

a) Medium Phosphorus Risk Field
   - The field shall have at least 30% ground cover at the time of application or the manure or other organic by-products shall be incorporated within one week.

b) High Phosphorus Risk Field
   - The field shall have at least 50% ground cover at the time of application unless the manure is incorporated within seven days on areas with < 50% cover.

7) Generalized Interpretation of the Nitrogen Leaching Risk Analysis

Fields with a rating of "LOW" or "MEDIUM" have a low/medium potential to leach nitrates below the root zone. These fields have more flexibility for timing of nitrogen application; however, care must be taken to limit loss of applied nitrogen through denitrification. Fields with a rating of "HIGH" have a high potential to leach nitrates below the root zone. Fields with systematic subsurface drains (tile) are rated "HIGH" potential to leach nitrates out of the root

zone. These fields require management that applies the nitrogen closer to the time the crop can utilize the applied nitrogen.

8) Criteria for Nitrogen via Commercial Fertilizer Sources

On fields with a "High Nitrogen Leaching Potential" apply the recommended nitrogen for spring planted crops prior to planting spring crops or split applications between pre-plant and a sidedress application. For perennial crops split the recommended application between two or three periods including early spring, early summer, or late summer. For fall planted crops, apply 20 to 30 lbs/acre of the recommended amount in the fall and the remainder in the spring.

9) Criteria for Nitrogen Application via Manure (During Summer and Fall Periods)

On fields with a "High Nitrogen Leaching Potential" (rating more than 10) and with no growing crop, manure and other organic by-products application is to be limited to 50 lbs/ac of nitrogen (Ammonium N + ⅓ of the organic N) calculated at the time of application from June through October to limit nitrogen leaching. When a grass or legume cover crop is growing or established immediately after waste application, manure or other organic by-products can be applied prior to October at the recommended nitrogen rate for the next non-legume crop or the nitrogen removal rate for the next legume (maximum 150 lbs/acre) crop.

Section 6. Nutrient Management

6.1. Field Information

Field ID	Sub-field ID	Total Area (ac)	Spread-able Area (ac)	County	Predominant Soil Type	Slope (%)	Watershed Code	FSA Farm	FSA Tract	FSA Field
Strauss 2	corn	10.7	10.7	New London	38C (Hinckley MPM)	5.0	011000020107	50	33	2
Strauss 4	grass	5.3	5.0	New London	61B (Canton SPM)		011000020107	50	33	4
Strauss 6	corn	3.1	3.1	New London	60B (Charlton FSL)	3.0	011000020107	50	33	6
Strauss 7	corn	3.2	3.2	New London	60B (Canton FSL)	3.0	011000020107	50	33	7
Strauss 12	grass	3.1	2.9	New London	60B (Canton FSL)		011000020107	50	33	12
Strauss 13	corn	8.4	8.4	New London	60B (Canton FSL)		011000020107	50	33	13
Strauss 5	corn	3.7	3.7	New London	60B (Charlton FSL)		011000020107	50	33	5
Bender/V.Hill3A	corn	5.6	5.6	New London	84B (Paxton FSL)	6.0	011000020107	1776	67	3
Bender/V.Hill3B	grass	6.6	6.6	New London	84B (Paxton FSL)		011000020107	1776	67	3
Bender/V.Hill 4	grass	11.8	11.4	New London	84B (Paxton FSL)		011000020107	1776	67	4
Bender/V.Hill 5	corn	5.2	5.2	New London	84B (Paxton FSL)	7.0	011000030103	1776	67	5
Bender/V.Hill 6	corn	14.7	14.0	New London	45A (Woodbridge FSL)		011000030103	2180	8556	1
Flegerts 1	corn	3.8	3.8	New London	45B (Woodbridge FSL)		011000030102	1008	73	1
Flegerts 2	corn	8.6	8.6	New London	45C (Woodbridge FSL)	9.0	011000030102	1008	73	2
Flegerts 3	corn	0.7	0.7	New London	84B (Paxton FSL)	6.0	011000030102	1008	73	3
Flegerts 4	corn	7.0	7.0	New London	84B (Paxton FSL)		011000030102	1008	73	4
Flegerts 5	corn	4.9	4.9	New London	85B (Paxton MPM)	3.0	011000030102	1008	73	5
Flegerts 6	corn	3.0	3.0	New London	45B (Woodbridge FSL)	7.0	011000030102	1008	73	6
Home Farm 1	corn	53.2	53.2	New London	45B (Woodbridge FSL)	4.0	011000030102	2079	76	2
Home Farm 2	corn	19.8	19.8	New London	60B (Canton FSL)		011000030102	2079	76	6
Home Farm 4	corn	8.1	8.1	New London	85B (Paxton MPM)		011000030102	2079	76	10
Home Farm 5	grass	7.8	7.8	New London	51B (Sutton FSL)		011000030102	2079	76	16
Home Farm 6	grass	2.7	2.7	New London	84D (Paxton FSL)		011000030102	2079	76	1
Scanlon big lot	corn	19.5	19.5	New London	45B (Woodbridge FSL)		011000030102	119	111	1
Scanlon middle	corn	3.2	3.2	New London	84B (Paxton FSL)	9.0	011000020303	119	111	2
Scanlon back	corn	7.0	6.5	New London	45B (Woodbridge FSL)		011000020303	119	111	3
Scanlon front	corn	4.5	4.0	New London	84B (Paxton FSL)	8.0	011000020303	119	111	4

Field ID	Sub-field ID	Total Area (ac)	Spread-able Area (ac)	County	Predominant Soil Type	Slope (%)	Watershed Code	FSA Farm	FSA Tract	FSA Field
Left of Scanlon	grass	5.3	5.2	New London	84B (Paxton FSL)		011000020303	2179	8555	1
EvergreenFarm 1	grass	14.5	13.0	New London	73E (Chatfield HPM)		011000030102	2079	117	1
EvergreenFarm 2	corn	4.6	3.4	New London	38C (Hinckley MPM)		011000030102	2079	117	2
EvergreenFarm 3	corn	11.6	9.1	New London	38C (Hinckley MPM)		011000030102	2079	117	3
EvergreenFarm 4	corn	2.8	2.5	New London	38C (Hinckley MPM)	3.0	011000030102	2079	7523	1
EvergreenFarm 5	corn	3.1	3.1	New London	84B (Paxton FSL)		011000030102	2079	7523	2
EvergreenFarm 7	grass	3.0	3.0	New London	38C (Hinckley MPM)		011000030102	2079	117	7
Young Stock 1	corn	3.8	3.8	New London	45B (Woodbridge FSL)		011000030102	2079	280	1
Young Stock 5	corn	7.4	7.0	New London	45B (Woodbridge FSL)		011000030102	2079	280	5
Young Stock 6	corn	2.4	2.4	New London	46B (Woodbridge MPM)		011000030102	1774	8157	1
Young Stock 7	grass	3.2	3.0	New London	45A (Woodbridge FSL)		011000030102	1774	8157	3
Young Stock 9	grass	6.8	6.8	New London	84C (Paxton FSL)	9.5	011000030102	2079	280	9
Flora	corn	10.0	10.0	New London	45A (Woodbridge FSL)		011000030102	768	560	2
Keys	grass	3.4	2.8	New London	45A (Woodbridge FSL)	4.0	011000030102	771	565	1
Krause 1	grass	11.3	11.1	New London	62C (Charlton MPM)		011000020107	781	574	1
Krause 3	grass	36.6	35.5	New London	75C (Hollis HPM)		011000020107	781	574	3
Krause 5	corn	18.8	18.8	New London	60B (Charlton FSL)		011000020107	781	574	5
Krause 6	grass	8.9	8.9	New London	45B (Woodbridge FSL)		011000020107	781	574	6
Krause 7	corn	9.4	9.4	New London	84B (Paxton FSL)	8.0	011000020107	781	574	7
Krause 8	corn	27.0	27.0	New London	45B (Woodbridge FSL)	3.0	011000020107	781	574	8
Krause 11	fallo	14.7	14.7	New London	47C (Woodbridge MPM)		011000020107	781	574	11
Pultz 1	corn	8.4	8.4	New London	84B (Paxton FSL)	7.0	011000030102	2079	688	1
Pultz 2	grass	15.6	15.6	New London	84C (Paxton FSL)	10.0	011000030102	2079	688	9
ScanlonPumpkLot	corn	2.8	2.8	New London	84B (Paxton FSL)	8.0	011000030102	119	756	1
PigeonSwamp1	corn	11.0	11.0	New London	84B (Paxton FSL)	3.0	011000030102	413	759	1
BoggLnAbovePond	grass	9.3	9.3	New London	84C (Paxton FSL)	15.0	011000030102	1855	957	1
BoggLn Valley1	corn	21.5	20.1	New London	29B (Agawam FSL)		011000030102	89	74	8
Bogg Ln 1	grass	17.0	15.7	New London	2 (Ridgebury MPM)		011000030102	869	958	1
Bogg Ln 2	grass	6.1	6.0	New London	60B (Canton FSL)		011000030102	869	958	6
10acre Lot	corn	9.5	6.0	New London	84B (Paxton FSL)	7.0	011000030102	119	7532	5

Field ID	Sub-field ID	Total Area (ac)	Spread-able Area (ac)	County	Predominant Soil Type	Slope (%)	Watershed Code	FSA Farm	FSA Tract	FSA Field
LowBabcockHill1	grass	25.3	25.2	New London	3 (Ridgebury MPM)		011000030102	2183	7679	1
LowBabcockHill2	corn	10.7	8.6	New London	3 (Ridgebury MPM)		011000030102	2183	7679	2
LowBabcockHill3	grass	11.6	11.6	New London	45B (Woodbridge FSL)		011000030102	2183	7679	3
Kick Hill Lot	corn	19.8	19.7	New London	84B (Montauk FSL)	8.0	011000020303	1273	7766	1
McCaw	corn	11.3	11.3	New London	45B (Woodbridge FSL)		011000030102	1430	7885	1
Briggs Rd	corn	29.2	29.2	New London	45B (Woodbridge FSL)		011000020303	2183	7983	6
Bender 1	grass	17.4	17.3	New London	84B (Montauk FSL)		011000020303	1776	8159	1
Bender 2	grass	7.6	7.3	New London	45B (Woodbridge FSL)		011000030102	1776	8159	42
Bender 7	corn	18.4	18.4	New London	84B (Montauk FSL)		011000030102	1776	8159	7
Bender 9	fallo	1.6	1.6	New London	45B (Woodbridge FSL)		011000020303	1776	8159	9
Bender 11	fallo	4.6	4.6	New London	45B (Woodbridge FSL)		011000020303	1776	8159	11
Bender 19	grass	8.8	8.8	New London	45B (Woodbridge FSL)		011000030102	1776	8159	19
Stebner 1	grass	14.9	14.9	New London	45A (Woodbridge FSL)		011000020107	2181	8557	20
Stebner 2	corn	8.2	8.2	New London	45B (Woodbridge FSL)	3.0	011000020107	2181	8557	19
Stebner 3	grass	22.0	22.0	New London	45B (Woodbridge FSL)	8.0	011000020107	2181	8557	18
Stebner 4	grass	11.1	11.1	New London	45B (Woodbridge FSL)		011000030103	2181	8557	17
Stebner 5	corn	6.1	6.1	New London	45A (Woodbridge FSL)		011000020107	2181	8557	5
Xmas Tree Corn	corn	24.2	24.2	New London	60B (Charlton FSL)		011000030102	2182	8558	1
Babcock Hill 1	grass	16.0	12.2	New London	84B (Montauk FSL)	8.0	011000030102	2183	8219	1
Babcock Hill 2	corn	38.6	38.6	New London	84B (Montauk FSL)	3.0	011000030102	2183	8219	3
Babcock Hill 3	grass	21.3	21.0	New London	45B (Woodbridge FSL)		011000030102	2183	8219	4
Babcock Hill 6	corn	6.9	6.9	New London	45B (Woodbridge FSL)	3.0	011000030102	2183	8219	6
Babcock Hill 10	corn	3.4	3.0	New London	45B (Woodbridge FSL)		011000030102	2183	8219	10
Babcock Hill 11	corn	5.5	4.5	New London	45B (Woodbridge FSL)	4.0	011000030102	2183	8219	11
Madley Rd 1	grass	1.9	1.5	New London	84B (Paxton FSL)		011000030102	90	86	1
Madley Rd 2	grass	2.6	2.6	New London	45A (Woodbridge FSL)		011000030102	90	86	2
Madley Rd 3	grass	6.9	6.9	New London	45B (Woodbridge FSL)		011000030102	90	86	3
Madley Bozworth	grass	5.0		New London	45B (Woodbridge FSL)					
Madley Rd 4	grass	4.0	3.0	New London	45B (Woodbridge FSL)		011000030102	90	86	4
Waldens 1	corn	8.9	8.9	New London	84B (Paxton FSL)		011000030103	93	78	1

Field ID	Sub-field ID	Total Area (ac)	Spread-able Area (ac)	County	Predominant Soil Type	Slope (%)	Watershed Code	FSA Farm	FSA Tract	FSA Field
Waldens 3	corn	9.7	9.7	New London	45B (Woodbridge FSL)		011000030103	93	78	3
Waldens 6	corn	15.9	15.7	New London	45B (Woodbridge FSL)		011000030103	93	78	6
Waldens 7	corn	1.1	1.1	New London	45B (Woodbridge FSL)		011000030103	93	78	7
Waldens 10	corn	4.6	4.6	New London	84B (Paxton FSL)		011000030103	93	78	10
Waldens 11	corn	1.1	1.1	New London	45B (Woodbridge FSL)		011000030103	93	78	11
Waldens 12	corn	2.9	2.9	New London	45B (Woodbridge FSL)		011000030103	93	78	12
Waldens 45	corn	35.0	35.0	New London	45B (Woodbridge FSL)		011000030103	93	78	45
Waldens 14	corn	1.0	1.0	New London	45B (Woodbridge FSL)		011000030103	93	78	14
Segars 1	corn	5.9	5.6	New London	60B (Charlton FSL)		011000020303	441	135	1
Segars 2	corn	9.1	9.1	New London	84C (Paxton FSL)		011000020303	441	135	2
Segars 3	grass	3.6	2.7	New London	3 (Leicester MPM)		011000020303	441	135	3
Segars 4	grass	5.1	5.1	New London	84B (Paxton FSL)		011000020303	441	135	4
Segars 6	grass	1.8	0.5	New London	2 (Ridgebury MPM)		011000020303	441	135	6
Segars 7	grass	12.1	12.0	New London	60B (Charlton FSL)		011000020303	441	135	7
Segars 8	grass	10.1	9.8	New London	60B (Charlton FSL)		011000020303	441	135	8
Segars 9	grass	4.2	4.2	New London	50B (Sutton FSL)		011000020303	441	135	9
Segars 10	grass	2.1	1.9	New London	52C (Sutton FSL)		011000020303	441	135	10
Segars 11	grass	6.9	6.7	New London	61B (Charlton MPM)		011000020303	441	135	11
Segars 12	grass	5.3	4.0	New London	47C (Woodbridge MPM)		011000020303	441	135	12
Segars 13	grass	8.4	6.4	New London	47C (Woodbridge MPM)		011000020303	441	135	13
Carneys 1	corn	9.1	9.1	New London	45B (Woodbridge FSL)		011000030102	366	704	1
Carneys 2	corn	4.3	4.3	New London	45B (Woodbridge FSL)		011000030102	366	704	2
Carneys 3	corn	17.8	17.7	New London	45B (Woodbridge FSL)		011000030102	366	704	3
Carneys 4	grass	3.2	3.2	New London	45B (Woodbridge FSL)		011000030102	366	704	4
Carneys 5	grass	6.4	5.6	New London	29A (Agawam FSL)		011000030102	366	704	5
Synagogue Rd 3	grass	4.6	4.6	Tolland	102 (Pootatuck FSL)		011000020107	349	847	3
Synagogue Rd 4	grass	4.8	4.8	Tolland	103 (Rippowam FSL)		011000020107	349	847	4
Synagogue Rd 5	grass	6.3	6.0	Tolland	34B (Merrimac FSL)		011000020107	349	847	5
Synagogue Rd 6	grass	4.1	4.1	Tolland	60B (Charlton FSL)		011000020107	349	847	6
Synagogue Rd 9	grass	2.6	0.8	Tolland	102 (Pootatuck FSL)		011000020107	349	847	9

Field ID	Sub-field ID	Total Area (ac)	Spread-able Area (ac)	County	Predominant Soil Type	Slope (%)	Watershed Code	FSA Farm	FSA Tract	FSA Field
M City Rd 1	corn	4.4	4.3	Tolland	21A (Ninigret FSL)		011000020206	906	928	1
M City Rd 2	corn	12.7	12.5	Tolland	60C (Charlton FSL)		011000020206	906	928	2
M City Rd 3	corn	2.3	2.3	Tolland	6 (Wilbraham MPM)		011000020206	906	928	3
Winery	grass	27.0	27.0	Tolland	84C (Paxton FSL)			533	843	25
Randazzo	grass	14.4	14.4	Tolland	84C (Paxton FSL)			348	484	15
Chappel Rd Corn	corn	12.0	12.0	New London	60B (Canton FSL)			2224	8609	5
Chappel Rd Gras	grass	5.0	5.0	New London	60B (Canton FSL)			2224	8609	5
Xmas Tree Grass	grass	20.0	20.0	New London	60B (Charlton FSL)			2182	8558	4

6.2. Manure Application Setback Distances

Feature Type	Application Criteria	Setback (feet)
Surface Water (including public water supply watersheds or concentrated flow paths to surface waters)	Applied up-gradient, permanent vegetated buffer ≥ 35 feet	35
	Applied up-gradient, permanent vegetated buffer < 35 feet	100
	Applied down-gradient	35
Dwelling (producer does not own)	Injection or incorporation the same day	75
	Surface application (no incorporation)	150
Well (public/private/agricultural)	< 10 gpm output- applied up gradient with permanently vegetated buffer ≥ 35 feet	35
	< 10 gpm output- applied up gradient with permanently vegetated buffer < 35 feet	100
	≥ 10 gpm and < 50 gpm output- all applications	100
	≥ 50 gpm output or stratified drift- all applications	200

6.3. Soil Test Data

Note: Some soil tests (33 of 125) are older than 3 growing seasons and should be updated. Recent soil tests (fall 2020) were not able to capture all the needed fields due to on-going production (manure applications) on the fields. All fields should have updated soils tests, ideally not older than 3-growing seasons.

Field	Test Year	OM (%)	P Test Used	P	K	Mg	Ca	Units	Soil pH	Buffer pH	CEC (meq/ 100g)
Strauss 2 (corn)	2014		UConn mod Morgan	362	167	168	5,097	lbs/ac	6.8	7.5	
Strauss 4 (grass)	2019		UConn mod Morgan	173	199	188	2,908	lbs/ac	6.4	6.5	9.0
Strauss 6 (corn)	2014		UConn mod Morgan	249	313	306	6,014	lbs/ac	6.9	7.5	
Strauss 7 (corn)	2014		UConn mod Morgan	249	313	306	6,014	lbs/ac	6.9	7.5	
Strauss 12 (grass)	2019		UConn mod Morgan	173	199	188	2,908	lbs/ac	6.4	6.5	9.0
Strauss 13 (corn)	2014		UConn mod Morgan	465	391	398	6,622	lbs/ac	6.9	7.6	
Strauss 5 (corn)	2014		UConn mod Morgan	265	144	126	5,579	lbs/ac	6.8	7.5	
Bender/V.Hill3A (corn)	2012		UConn mod Morgan	93	62	236	2,739	lbs/ac	6.1	6.8	
Bender/V.Hill3B (grass)	2019		UConn mod Morgan	12	238	208	1,103	lbs/ac	5.2	6.0	9.9
Bender/V.Hill 4 (grass)	2019		UConn mod Morgan	12	238	208	1,103	lbs/ac	5.2	6.0	9.9
Bender/V.Hill 5 (corn)	2012		UConn mod Morgan	93	62	236	2,739	lbs/ac	6.1	6.8	
Bender/V.Hill 6 (corn)	2012		UConn mod Morgan	93	62	236	2,739	lbs/ac	6.1	6.8	
Flegerts 1 (corn)	2014		UConn mod Morgan	132	378	379	2,591	lbs/ac	6.4	7.1	
Flegerts 2 (corn)	2014		UConn mod Morgan	132	378	379	2,591	lbs/ac	6.4	7.1	
Flegerts 3 (corn)	2014		UConn mod Morgan	132	378	379	2,591	lbs/ac	6.4	7.1	
Flegerts 4 (corn)	2014		UConn mod Morgan	129	380	397	2,521	lbs/ac	6.4	7.1	

Field	Test Year	OM (%)	P Test Used	P	K	Mg	Ca	Units	Soil pH	Buffer pH	CEC (meq/ 100g)
Flegerts 5 (corn)	2014		UConn mod Morgan	129	380	397	2,521	lbs/ac	6.4	7.1	
Flegerts 6 (corn)	2014		UConn mod Morgan	129	380	397	2,521	lbs/ac	6.4	7.1	
Home Farm 1 (corn)	2019		UConn mod Morgan	9	151	217	1,213	lbs/ac	5.6	6.2	8.5
Home Farm 2 (corn)	2019		UConn mod Morgan	9	151	217	1,213	lbs/ac	5.6	6.2	8.5
Home Farm 4 (corn)	2019		UConn mod Morgan	9	151	217	1,213	lbs/ac	5.6	6.2	8.5
Home Farm 5 (grass)	2019		UConn mod Morgan	22	274	367	1,760	lbs/ac	5.8	6.2	10.2
Home Farm 6 (grass)	2019		UConn mod Morgan	22	274	367	1,760	lbs/ac	5.8	6.2	10.2
Scanlon big lot (corn)	2020		UConn mod Morgan	29	449	353	1,524	lbs/ac	6.2	6.1	11.4
Scanlon middle (corn)	2020		UConn mod Morgan	46	372	305	1,573	lbs/ac	6.0	6.1	10.9
Scanlon back (corn)	2020		UConn mod Morgan	16	286	112	822	lbs/ac	5.7	6.0	9.6
Scanlon front (corn)	2020		UConn mod Morgan	46	283	246	1,515	lbs/ac	5.8	6.0	12.3
Left of Scanlon (grass)	2020		UConn mod Morgan	11	271	206	842	lbs/ac	5.6	5.9	10.9
EvergreenFarm 1 (grass)	2014		UConn mod Morgan	88	116	387	1,870	lbs/ac	5.9	6.6	
EvergreenFarm 2 (corn)	2019		UConn mod Morgan	125	237	324	4,000	lbs/ac	7.0	6.4	14.6
EvergreenFarm 3 (corn)	2019		UConn mod Morgan	125	237	324	4,000	lbs/ac	7.0	6.4	14.6
EvergreenFarm 4 (corn)	2019		UConn mod Morgan	216	205	348	4,000	lbs/ac	6.9	6.5	13.8
EvergreenFarm 5 (corn)	2019		UConn mod Morgan	216	205	348	4,000	lbs/ac	6.9	6.5	13.8
EvergreenFarm 7 (grass)	2014		UConn mod Morgan	88	116	387	1,870	lbs/ac	5.9	6.6	
Young Stock 1 (corn)	2019		UConn mod Morgan	15	225	321	3,125	lbs/ac	6.1	6.3	11.1

Field	Test Year	OM (%)	P Test Used	P	K	Mg	Ca	Units	Soil pH	Buffer pH	CEC (meq/ 100g)
Young Stock 5 (corn)	2019		UConn mod Morgan	15	225	321	3,125	lbs/ac	6.1	6.3	11.1
Young Stock 6 (corn)	2019		UConn mod Morgan	15	225	321	3,125	lbs/ac	6.1	6.3	11.1
Young Stock 7 (grass)	2019		UConn mod Morgan	7	221	228	1,311	lbs/ac	5.5	6.1	10.0
Young Stock 9 (grass)	2019		UConn mod Morgan	7	221	228	1,311	lbs/ac	5.5	6.1	10.0
Flora (corn)	2019		UConn mod Morgan	21	437	360	2,358	lbs/ac	5.9	6.3	10.8
Keys (grass)	2019		UConn mod Morgan	6	58	83	707	lbs/ac	5.2	6.0	8.2
Krause 1 (grass)	2019		UConn mod Morgan	13	120	214	844	lbs/ac	5.2	6.0	9.4
Krause 3 (grass)	2019		UConn mod Morgan	12	238	208	1,103	lbs/ac	5.2	6.0	9.9
Krause 5 (corn)	2020		UConn mod Morgan	177	431	314	3,311	lbs/ac	6.6	6.3	13.1
Krause 6 (grass)	2019		UConn mod Morgan	13	100	236	1,487	lbs/ac	5.3	6.1	10.4
Krause 7 (corn)	2020		UConn mod Morgan	154	276	247	2,778	lbs/ac	6.2	6.3	10.9
Krause 8 (corn)	2020		UConn mod Morgan	137	271	340	4,000	lbs/ac	6.9	6.5	12.3
Krause 11 (fallo)	2014		UConn mod Morgan	100	369	278	2,981	lbs/ac	6.1	6.8	
Pultz 1 (corn)	2020		UConn mod Morgan	143	298	371	4,000	lbs/ac	6.6	6.4	14.4
Pultz 2 (grass)	2019		UConn mod Morgan	15	150	262	1,702	lbs/ac	5.7	6.2	9.6
ScanlonPumpkLot (corn)	2020		UConn mod Morgan	25	379	312	2,229	lbs/ac	6.2	6.1	12.3
PigeonSwamp1 (corn)	2020		UConn mod Morgan	8	205	181	1,238	lbs/ac	5.9	6.1	9.4
BoggLnAbovePond (grass)	2014		UConn mod Morgan	88	96	306	2,588	lbs/ac	5.6	6.2	
BoggLn Valley1 (corn)	2020		UConn mod Morgan	137	243	293	3,115	lbs/ac	6.3	6.1	14.2

Field	Test Year	OM (%)	P Test Used	P	K	Mg	Ca	Units	Soil pH	Buffer pH	CEC (meq/ 100g)
Bogg Ln 1 (grass)	2019		UConn mod Morgan	8	78	108	838	lbs/ac	5.2	6.0	9.1
Bogg Ln 2 (grass)	2019		UConn mod Morgan	8	78	108	838	lbs/ac	5.2	6.0	9.1
10acre Lot (corn)	2019		UConn mod Morgan	15	147	289	1,716	lbs/ac	5.7	6.2	10.1
LowBabcockHill1 (grass)	2019		UConn mod Morgan	8	101	123	712	lbs/ac	5.2	6.0	8.9
LowBabcockHill2 (corn)	2020		UConn mod Morgan	4	81	342	1,429	lbs/ac	6.2	6.4	6.4
LowBabcockHill3 (grass)	2019		UConn mod Morgan	8	101	123	712	lbs/ac	5.2	6.0	8.9
Kick Hill Lot (corn)	2020		UConn mod Morgan	138	456	366	3,209	lbs/ac	6.8	6.3	12.7
McCaw (corn)	2020		UConn mod Morgan	9	151	217	1,213	lbs/ac	5.6	6.2	8.5
Briggs Rd (corn)	2014		UConn mod Morgan	287	105	302	8,879	lbs/ac	6.9	7.4	
Bender 1 (grass)	2014		UConn mod Morgan	98	86	133	2,804	lbs/ac	5.9	6.6	
Bender 2 (grass)	2014		UConn mod Morgan	98	86	133	2,804	lbs/ac	5.9	6.6	
Bender 7 (corn)	2014		UConn mod Morgan	158	497	318	3,309	lbs/ac	6.3	6.9	
Bender 9 (fallo)	2014		UConn mod Morgan	158	497	318	3,309	lbs/ac	6.3	6.9	
Bender 11 (fallo)	2014		UConn mod Morgan	158	497	318	3,309	lbs/ac	6.3	6.9	
Bender 19 (grass)	2014		UConn mod Morgan	98	86	133	2,804	lbs/ac	5.9	6.6	
Stebner 1 (grass)	2019		UConn mod Morgan	35	87	170	2,145	lbs/ac	6.1	6.4	8.0
Stebner 2 (corn)	2020		UConn mod Morgan	109	407	307	3,858	lbs/ac	7.0	6.4	12.9
Stebner 3 (grass)	2019		UConn mod Morgan	35	87	170	2,145	lbs/ac	6.1	6.4	8.0
Stebner 4 (grass)	2019		UConn mod Morgan	35	87	170	2,145	lbs/ac	6.1	6.4	8.0

Field	Test Year	OM (%)	P Test Used	P	K	Mg	Ca	Units	Soil pH	Buffer pH	CEC (meq/ 100g)
Stebner 5 (corn)	2020		UConn mod Morgan	888	327	387	4,000	lbs/ac	7.4	6.6	30.5
Xmas Tree Corn (corn)	2019		UConn mod Morgan	5	91	305	1,335	lbs/ac	5.7	6.2	8.5
Babcock Hill 1 (grass)	2019		UConn mod Morgan	9	121	158	1,987	lbs/ac	5.9	6.3	8.7
Babcock Hill 2 (corn)	2019		UConn mod Morgan	43	111	189	2,617	lbs/ac	6.1	6.4	9.3
Babcock Hill 3 (grass)	2019		UConn mod Morgan	15	156	251	2,297	lbs/ac	6.2	6.4	8.4
Babcock Hill 6 (corn)	2019		UConn mod Morgan	57	66	171	3,481	lbs/ac	6.4	6.5	10.2
Babcock Hill 10 (corn)	2019		UConn mod Morgan	118	130	304	5,187	lbs/ac	6.5	7.0	
Babcock Hill 11 (corn)	2019		UConn mod Morgan	353	220	255	7,814	lbs/ac	6.7	7.2	
Madley Rd 1 (grass)	2019		UConn mod Morgan	9	152	302	1,649	lbs/ac	5.6	6.1	10.5
Madley Rd 2 (grass)	2019		UConn mod Morgan	15	203	346	1,811	lbs/ac	5.8	6.2	10.1
Madley Rd 3 (grass)	2020		UConn mod Morgan	20	275	229	1,458	lbs/ac	5.9	6.0	11.4
Madley Bozworth (grass)	2020		UConn mod Morgan	20	275	229	1,458	lbs/ac	5.9	6.0	11.4
Madley Rd 4 (grass)	2019		UConn mod Morgan	15	203	346	1,811	lbs/ac	5.8	6.2	10.1
Waldens 1 (corn)	2020		UConn mod Morgan	153	419	415	4,000	lbs/ac	7.1	6.5	18.1
Waldens 3 (corn)	2020		UConn mod Morgan	231	359	440	4,000	lbs/ac	6.9	6.5	21.5
Waldens 6 (corn)	2020		UConn mod Morgan	119	220	348	4,000	lbs/ac	7.0	6.4	17.5
Waldens 7 (corn)	2020		UConn mod Morgan	115	244	395	4,000	lbs/ac	7.1	6.5	16.0
Waldens 10 (corn)	2020		UConn mod Morgan	241	278	407	4,000	lbs/ac	7.2	6.5	20.9
Waldens 11 (corn)	2020		UConn mod Morgan	293	318	419	4,000	lbs/ac	7.2	6.5	19.5

Field	Test Year	OM (%)	P Test Used	P	K	Mg	Ca	Units	Soil pH	Buffer pH	CEC (meq/ 100g)
Waldens 12 (corn)	2020		UConn mod Morgan	293	318	419	4,000	lbs/ac	7.2	6.5	19.5
Waldens 45 (corn)	2020		UConn mod Morgan	15	147	289	1,716	lbs/ac	5.7	6.2	10.1
Waldens 14 (corn)	2020		UConn mod Morgan	293	318	419	4,000	lbs/ac	7.2	6.5	19.5
Segars 1 (corn)	2019		UConn mod Morgan	122	213	159	2,462	lbs/ac	6.2	6.3	9.2
Segars 2 (corn)	2019		UConn mod Morgan	18	114	112	1,187	lbs/ac	5.4	6.2	8.0
Segars 3 (grass)	2019		UConn mod Morgan	18	114	112	1,187	lbs/ac	5.4	6.2	8.0
Segars 4 (grass)	2019		UConn mod Morgan	18	114	112	1,187	lbs/ac	5.4	6.2	8.0
Segars 6 (grass)	2019		UConn mod Morgan	5	63	80	1,025	lbs/ac	5.7	6.2	6.5
Segars 7 (grass)	2019		UConn mod Morgan	5	63	80	1,025	lbs/ac	5.7	6.2	6.5
Segars 8 (grass)	2019		UConn mod Morgan	49	113	148	1,741	lbs/ac	6.0	6.3	7.6
Segars 9 (grass)	2019		UConn mod Morgan	23	88	62	1,163	lbs/ac	5.4	6.2	7.7
Segars 10 (grass)	2019		UConn mod Morgan	23	88	62	1,163	lbs/ac	5.4	6.2	7.7
Segars 11 (grass)	2020		UConn mod Morgan	109	83	243	2,877	lbs/ac	6.1	6.7	7.7
Segars 12 (grass)	2020		UConn mod Morgan	129	90	187	3,356	lbs/ac	6.5	7.1	8.0
Segars 13 (grass)	2020		UConn mod Morgan	119	72	169	2,291	lbs/ac	6.4	7.0	8.4
Carneys 1 (corn)	2020		UConn mod Morgan	41	141	337	4,000	lbs/ac	6.7	6.3	15.1
Carneys 2 (corn)	2020		UConn mod Morgan	41	141	337	4,000	lbs/ac	6.7	6.3	15.1
Carneys 3 (corn)	2020		UConn mod Morgan	64	145	262	3,963	lbs/ac	6.7	6.3	13.4
Carneys 4 (grass)	2019		UConn mod Morgan	7	75	121	1,038	lbs/ac	5.6	6.2	6.6

Field	Test Year	OM (%)	P Test Used	P	K	Mg	Ca	Units	Soil pH	Buffer pH	CEC (meq/ 100g)
Carneys 5 (grass)	2019		UConn mod Morgan	7	75	121	1,038	lbs/ac	5.6	6.2	6.6
Synagogue Rd 3 (grass)	2014		UConn mod Morgan	100	150			lbs/ac			
Synagogue Rd 4 (grass)	2014		UConn mod Morgan	100	150			lbs/ac			
Synagogue Rd 5 (grass)	2014		UConn mod Morgan	100	150			lbs/ac			
Synagogue Rd 6 (grass)	2014		UConn mod Morgan	100	150			lbs/ac			
Synagogue Rd 9 (grass)	2014		UConn mod Morgan	100	150			lbs/ac			
M City Rd 1 (corn)	2012		UConn mod Morgan	155	152	309	2,683	lbs/ac	6.2	6.8	
M City Rd 2 (corn)	2012		UConn mod Morgan	183	251	231	2,372	lbs/ac	5.8	6.5	
M City Rd 3 (corn)	2012		UConn mod Morgan	183	251	231	2,372	lbs/ac	5.8	6.5	
Winery (grass)	2019		UConn mod Morgan	28	75	145	1,626	lbs/ac	5.9	6.4	6.5
Randazzo (grass)	2019		UConn mod Morgan	9	117	194	1,305	lbs/ac	5.9	6.3	6.3
Chappel Rd Corn (corn)	2020		UConn mod Morgan	15	147	289	1,716	lbs/ac	5.7	6.2	10.1
Chappel Rd Gras (grass)	2020		UConn mod Morgan	22	274	367	1,760	lbs/ac	5.8	6.2	10.2
Xmas Tree Grass (grass)	2020		UConn mod Morgan	22	274	367	1,760	lbs/ac	5.8	6.2	10.2

6.4. Manure Nutrient Analyses

The manure values below are book values from the manure management software (MMP). It would be to the farms benefit to grab manure samples from every storage containment as it is being emptied (spring/fall). As the farm builds it's own database of manure analysis over the years, a more accurate running average of nutrients in the manure will help the farm better predict nutrient loads following manure applications to the fields.

Manure Source	Dry Matter (%)	Total N	NH_4-N	Total P_2O_5	Total K_2O	Avail. P_2O_5	Avail. K_2O	Units	Analysis Source and Date
Milkers - Lagoon	10.0	21.0	4.0	7.0	18.0	7.0	18.0	lbs/1000 gal	MMP Estimate
Milker - Slurrystore	10.0	21.0	4.0	7.0	18.0	7.0	18.0	lbs/1000 gal	AWM estimate
Heifer - Slurry tank	12.0	21.0	4.0	8.0	16.6	8.0	16.6	lbs/1000 gal	AWM estimate
Milker - Solids Shed	25.0	6.2	1.2	3.1	4.7	3.1	4.7	lbs/ton	AWM estimate
Heifer - Solids Shed	45.0	4.3	0.9	1.9	2.3	1.9	2.3	lbs/ton	AWM estimate
Briggs Road Lagoon	10.0	21.0	4.0	7.0	18.0	7.0	18.0	lbs/1000 gal	MMP Estimate
Walden Lagoon	10.0	21.0	4.0	8.0	16.6	8.0	16.6	lbs/1000 gal	MMP Estimate
Compost Building	55.0	6.2	1.2	3.1	4.7	3.1	4.7	lbs/ton	MMP Estimate
Silage Leachate Pond	2.0	0.5	0.1	0.5	0.5	0.5	0.5	lbs/1000 gal	AWM estimate (leachate + 25 yr storm + rain/evap)

a. Entered analysis may be the average of several individual analyses.
b. Connecticut assumes that 100% of manure phosphorus and 100% of manure potassium is crop available. First-year per-acre nitrogen availability for individual manure applications is given in the Planned Nutrient Applications table. For more information about nitrogen availability in Connecticut, see The Penn State Agronomy Guide 2013-2014, Table 1.2-15 (http://extension.psu.edu/agronomy-guide/cm/tables/table1-2-15.pdf).

6.5. Planned Crops and Fertilizer Recommendations

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Strauss 2 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	128	225	125	275	
Strauss 2 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	128	225	125	275	
Strauss 2 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	128	225	125	275	
Strauss 4 (grass)	2021	Grass	4.0 tons	160[b]	0	120[b]	138	44	183	
Strauss 4 (grass)	2022	Grass	4.0 tons	50	20[b]	30	138	44	183	
Strauss 4 (grass)	2023	Grass	4.0 tons	50	20[b]	30	138	44	183	
Strauss 6 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	72	225	125	275	
Strauss 6 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	72	225	125	275	
Strauss 6 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	72	225	125	275	
Strauss 7 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	72	225	125	275	
Strauss 7 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	72	225	125	275	
Strauss 7 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	72	225	125	275	
Strauss 12 (grass)	2021	Grass	4.0 tons	160[b]	0	120[b]	138	44	183	
Strauss 12 (grass)	2022	Grass	4.0 tons	50	20[b]	30	138	44	183	
Strauss 12 (grass)	2023	Grass	4.0 tons	50	20[b]	30	138	44	183	
Strauss 13 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Strauss 13 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Strauss 13 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Strauss 5 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	128	225	125	275	
Strauss 5 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	128	225	125	275	
Strauss 5 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	128	225	125	275	
Bender/V.Hill3A (corn)	2021	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
Bender/V.Hill3A (corn)	2022	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
Bender/V.Hill3A (corn)	2023	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
Bender/V.Hill3B (grass)	2021	Grass	4.0 tons	160[b]	60[b]	120[b]	138	44	183	
Bender/V.Hill3B (grass)	2022	Grass	4.0 tons	60	30	40[b]	138	44	183	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Bender/V.Hill3B (grass)	2023	Grass	4.0 tons	60	30	40[b]	138	44	183	
Bender/V.Hill 4 (grass)	2021	Grass	4.0 tons	160[b]	60[b]	120[b]	138	44	183	
Bender/V.Hill 4 (grass)	2022	Grass	4.0 tons	60	30	40[b]	138	44	183	
Bender/V.Hill 4 (grass)	2023	Grass	4.0 tons	60	30	40[b]	138	44	183	
Bender/V.Hill 5 (corn)	2021	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
Bender/V.Hill 5 (corn)	2022	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
Bender/V.Hill 5 (corn)	2023	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
Bender/V.Hill 6 (corn)	2021	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
Bender/V.Hill 6 (corn)	2022	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
Bender/V.Hill 6 (corn)	2023	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
Flegerts 1 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 1 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 1 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 2 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 2 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 2 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 3 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 3 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 3 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 4 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 4 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 4 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 5 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 5 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 5 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 6 (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Flegerts 6 (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Flegerts 6 (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
Home Farm 1 (corn)	2021	Corn for Silage, convent	30.0 tons	175[b]	0	60	270	150	330	
Home Farm 1 (corn)	2022	Corn for Silage, convent	30.0 tons	175[b]	0	60	270	150	330	
Home Farm 1 (corn)	2023	Corn for Silage, convent	30.0 tons	175[b]	0	60	270	150	330	
Home Farm 2 (corn)	2021	Corn for Silage, convent	30.0 tons	175[b]	0	60	270	150	330	
Home Farm 2 (corn)	2022	Corn for Silage, convent	30.0 tons	175[b]	0	60	270	150	330	
Home Farm 2 (corn)	2023	Corn for Silage, convent	30.0 tons	175[b]	0	60	270	150	330	
Home Farm 4 (corn)	2021	Corn for Silage, convent	30.0 tons	175[b]	0	60	270	150	330	
Home Farm 4 (corn)	2022	Corn for Silage, convent	30.0 tons	175[b]	0	60	270	150	330	
Home Farm 4 (corn)	2023	Corn for Silage, convent	30.0 tons	175[b]	0	60	270	150	330	
Home Farm 5 (grass)	2021	Grass	4.0 tons	160[b]	60[b]	140[b]	138	44	183	
Home Farm 5 (grass)	2022	Grass	4.0 tons	60	30[b]	40[b]	138	44	183	
Home Farm 5 (grass)	2023	Grass	4.0 tons	60	30[b]	40[b]	138	44	183	
Home Farm 6 (grass)	2021	Grass	4.0 tons	160[b]	0	100[b]	138	44	183	
Home Farm 6 (grass)	2022	Grass	4.0 tons	50	20[b]	30	138	44	183	
Home Farm 6 (grass)	2023	Grass	4.0 tons	50	20[b]	30	138	44	183	
Scanlon big lot (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Scanlon big lot (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Scanlon big lot (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Scanlon middle (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Scanlon middle (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Scanlon middle (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Scanlon back (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	50[b]	80[b]	225	125	275	
Scanlon back (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	50[b]	80[b]	225	125	275	
Scanlon back (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	50[b]	80[b]	225	125	275	
Scanlon front (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Scanlon front (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Scanlon front (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Left of Scanlon (grass)	2021	Grass	4.0 tons	175[b]	75[b]	80[b]	138	44	183	
Left of Scanlon (grass)	2022	Grass	4.0 tons	60	30	80[b]	138	44	183	
Left of Scanlon (grass)	2023	Grass	4.0 tons	60	30	80[b]	138	44	183	
EvergreenFarm 1 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
EvergreenFarm 1 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
EvergreenFarm 1 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
EvergreenFarm 2 (corn)	2021	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 2 (corn)	2022	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 2 (corn)	2023	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 3 (corn)	2021	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 3 (corn)	2022	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 3 (corn)	2023	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 4 (corn)	2021	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 4 (corn)	2022	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
EvergreenFarm 4 (corn)	2023	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 5 (corn)	2021	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 5 (corn)	2022	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 5 (corn)	2023	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
EvergreenFarm 7 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
EvergreenFarm 7 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
EvergreenFarm 7 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
Young Stock 1 (corn)	2021	Corn for Silage, convent	30.0 tons	160[b]	0	120[b]	270	150	330	
Young Stock 1 (corn)	2022	Corn for Silage, convent	30.0 tons	160[b]	0	120[b]	270	150	330	
Young Stock 1 (corn)	2023	Corn for Silage, convent	30.0 tons	160[b]	0	120[b]	270	150	330	
Young Stock 5 (corn)	2021	Corn for Silage, convent	30.0 tons	160[b]	0	120[b]	270	150	330	
Young Stock 5 (corn)	2022	Corn for Silage, convent	30.0 tons	160[b]	0	120[b]	270	150	330	
Young Stock 5 (corn)	2023	Corn for Silage, convent	30.0 tons	160[b]	0	120[b]	270	150	330	
Young Stock 6 (corn)	2021	Corn for Silage, convent	30.0 tons	160[b]	0	120[b]	270	150	330	
Young Stock 6 (corn)	2022	Corn for Silage, convent	30.0 tons	160[b]	0	120[b]	270	150	330	
Young Stock 6 (corn)	2023	Corn for Silage, convent	30.0 tons	160[b]	0	120[b]	270	150	330	
Young Stock 7 (grass)	2021	Grass	4.0 tons	160[b]	120[b]	120[b]	138	44	183	
Young Stock 7 (grass)	2022	Grass	4.0 tons	160[b]	120[b]	120[b]	138	44	183	
Young Stock 7 (grass)	2023	Grass	4.0 tons	160[b]	120[b]	120[b]	138	44	183	
Young Stock 9 (grass)	2021	Grass	4.0 tons	160[b]	120[b]	120[b]	138	44	183	
Young Stock 9 (grass)	2022	Grass	4.0 tons	160[b]	120[b]	120[b]	138	44	183	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Young Stock 9 (grass)	2023	Grass	4.0 tons	160[b]	120[b]	120[b]	138	44	183	
Flora (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	60[b]	180	100	220	
Flora (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	60[b]	180	100	220	
Flora (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	60[b]	180	100	220	
Keys (grass)	2021	Grass	4.0 tons	80	34	68	138	44	183	
Keys (grass)	2022	Grass	4.0 tons	80	34	68	138	44	183	
Keys (grass)	2023	Grass	4.0 tons	80	34	68	138	44	183	
Krause 1 (grass)	2021	Grass	4.0 tons	160[b]	60[b]	120[b]	138	44	183	
Krause 1 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
Krause 1 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
Krause 3 (grass)	2021	Grass	4.0 tons	160[b]	60[b]	140[b]	138	44	183	
Krause 3 (grass)	2022	Grass	4.0 tons	60	30	40[b]	138	44	183	
Krause 3 (grass)	2023	Grass	4.0 tons	60	30	40[b]	138	44	183	
Krause 5 (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Krause 5 (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Krause 5 (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Krause 6 (grass)	2021	Grass	4.0 tons	160[b]	60[b]	140[b]	138	44	183	
Krause 6 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
Krause 6 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
Krause 7 (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Krause 7 (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Krause 7 (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Krause 8 (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Krause 8 (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Krause 8 (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Krause 11 (fallo)	2021	Fallow		0	0	0	0	0	0	
Krause 11 (fallo)	2022	Fallow		0	0	0	0	0	0	
Krause 11 (fallo)	2023	Fallow		0	0	0	0	0	0	
Pultz 1 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Pultz 1 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Pultz 1 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Pultz 2 (grass)	2021	Grass	4.0 tons	160[b]	30[b]	140[b]	138	44	183	
Pultz 2 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Pultz 2 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
ScanlonPumpkLot (corn)	2021	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
ScanlonPumpkLot (corn)	2022	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
ScanlonPumpkLot (corn)	2023	Corn for Silage, convent	25.0 tons	147	0	0	225	125	275	
PigeonSwamp1 (corn)	2021	Corn for Silage, convent	20.0 tons	147	61	72	180	100	220	
PigeonSwamp1 (corn)	2022	Corn for Silage, convent	20.0 tons	147	61	72	180	100	220	
PigeonSwamp1 (corn)	2023	Corn for Silage, convent	20.0 tons	147	61	72	180	100	220	
BoggLnAbovePond (grass)	2021	Grass	4.0 tons	160[b]	60[b]	140[b]	138	44	183	
BoggLnAbovePond (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
BoggLnAbovePond (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
BoggLn Valley1 (corn)	2021	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
BoggLn Valley1 (corn)	2022	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
BoggLn Valley1 (corn)	2023	Corn for Silage, convent	30.0 tons	175[b]	0	120[b]	270	150	330	
Bogg Ln 1 (grass)	2021	Grass	4.0 tons	160[b]	60[b]	140[b]	138	44	183	
Bogg Ln 1 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
Bogg Ln 1 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
Bogg Ln 2 (grass)	2021	Grass	4.0 tons	160[b]	60[b]	140[b]	138	44	183	
Bogg Ln 2 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
Bogg Ln 2 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
10acre Lot (corn)	2021	Corn for Silage, convent	25.0 tons	147	46	128	225	125	275	
10acre Lot (corn)	2022	Corn for Silage, convent	25.0 tons	147	46	128	225	125	275	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
10acre Lot (corn)	2023	Corn for Silage, convent	25.0 tons	147	46	128	225	125	275	
LowBabcockHill1 (grass)	2021	Grass	4.0 tons	160[b]	80[b]	140[b]	138	44	183	
LowBabcockHill1 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
LowBabcockHill1 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
LowBabcockHill2 (corn)	2021	Corn for Silage, convent	30.0 tons	160[b]	0	80	270	150	330	
LowBabcockHill2 (corn)	2022	Corn for Silage, convent	30.0 tons	160[b]	0	80	270	150	330	
LowBabcockHill2 (corn)	2023	Corn for Silage, convent	30.0 tons	160[b]	0	80	270	150	330	
LowBabcockHill3 (grass)	2021	Grass	4.0 tons	160[b]	80[b]	140[b]	138	44	183	
LowBabcockHill3 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
LowBabcockHill3 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
Kick Hill Lot (corn)	2021	Corn for Silage, convent	30.0 tons	175[b]	0	60[b]	270	150	330	
Kick Hill Lot (corn)	2022	Corn for Silage, convent	30.0 tons	175[b]	0	60[b]	270	150	330	
Kick Hill Lot (corn)	2023	Corn for Silage, convent	30.0 tons	175[b]	0	60[b]	270	150	330	
McCaw (corn)	2021	Corn for Silage, convent	20.0 tons	147	61	128	180	100	220	
McCaw (corn)	2022	Corn for Silage, convent	20.0 tons	147	61	128	180	100	220	
McCaw (corn)	2023	Corn for Silage, convent	20.0 tons	147	61	128	180	100	220	
Briggs Rd (corn)	2021	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Briggs Rd (corn)	2022	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Briggs Rd (corn)	2023	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Bender 1 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
Bender 1 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
Bender 1 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
Bender 2 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
Bender 2 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
Bender 2 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
Bender 7 (corn)	2021	Corn for Silage, convent	30.0 tons	147	0	0	270	150	330	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Bender 7 (corn)	2022	Corn for Silage, convent	30.0 tons	147	0	0	270	150	330	
Bender 7 (corn)	2023	Corn for Silage, convent	30.0 tons	147	0	0	270	150	330	
Bender 9 (fallo)	2021	Corn for Silage, convent	30.0 tons	147	0	0	270	150	330	
Bender 9 (fallo)	2022	Corn for Silage, convent	30.0 tons	147	0	0	270	150	330	
Bender 9 (fallo)	2023	Corn for Silage, convent	30.0 tons	147	0	0	270	150	330	
Bender 11 (fallo)	2021	Corn for Silage, convent	30.0 tons	147	0	0	270	150	330	
Bender 11 (fallo)	2022	Corn for Silage, convent	30.0 tons	147	0	0	270	150	330	
Bender 11 (fallo)	2023	Corn for Silage, convent	30.0 tons	147	0	0	270	150	330	
Bender 19 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
Bender 19 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
Bender 19 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
Stebner 1 (grass)	2021	Grass	4.0 tons	160[b]	0	180[b]	138	44	183	
Stebner 1 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Stebner 1 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Stebner 2 (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Stebner 2 (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Stebner 2 (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	60[b]	225	125	275	
Stebner 3 (grass)	2021	Grass	4.0 tons	160[b]	0	180[b]	138	44	183	
Stebner 3 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Stebner 3 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Stebner 4 (grass)	2021	Grass	4.0 tons	60	30[b]	40	138	44	183	
Stebner 4 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Stebner 4 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Stebner 5 (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Stebner 5 (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Stebner 5 (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	80[b]	225	125	275	
Xmas Tree Corn (corn)	2021	Corn for Silage, convent	25.0 tons	147	61	128	225	125	275	
Xmas Tree Corn (corn)	2022	Corn for Silage, convent	25.0 tons	147	61	128	225	125	275	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Xmas Tree Corn (corn)	2023	Corn for Silage, convent	25.0 tons	147	61	128	225	125	275	
Babcock Hill 1 (grass)	2021	Grass	4.0 tons	80	34	68	138	44	183	
Babcock Hill 1 (grass)	2022	Grass	4.0 tons	80	34	68	138	44	183	
Babcock Hill 1 (grass)	2023	Grass	4.0 tons	80	34	68	138	44	183	
Babcock Hill 2 (corn)	2021	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Babcock Hill 2 (corn)	2022	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Babcock Hill 2 (corn)	2023	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Babcock Hill 3 (grass)	2021	Grass	4.0 tons	80	23	68	138	44	183	
Babcock Hill 3 (grass)	2022	Grass	4.0 tons	80	23	68	138	44	183	
Babcock Hill 3 (grass)	2023	Grass	4.0 tons	80	23	68	138	44	183	
Babcock Hill 6 (corn)	2021	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Babcock Hill 6 (corn)	2022	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Babcock Hill 6 (corn)	2023	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Babcock Hill 10 (corn)	2021	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Babcock Hill 10 (corn)	2022	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Babcock Hill 10 (corn)	2023	Corn for Silage, convent	30.0 tons	147	0	128	270	150	330	
Babcock Hill 11 (corn)	2021	Corn for Silage, convent	30.0 tons	147	0	72	270	150	330	
Babcock Hill 11 (corn)	2022	Corn for Silage, convent	30.0 tons	147	0	72	270	150	330	
Babcock Hill 11 (corn)	2023	Corn for Silage, convent	30.0 tons	147	0	72	270	150	330	
Madley Rd 1 (grass)	2021	Grass	4.0 tons	160[b]	80[b]	140[b]	138	44	183	
Madley Rd 1 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Madley Rd 1 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
Madley Rd 2 (grass)	2021	Grass	4.0 tons	160[b]	80[b]	140[b]	138	44	183	
Madley Rd 2 (grass)	2022	Grass	4.0 tons	60	30[b]	40[b]	138	44	183	
Madley Rd 2 (grass)	2023	Grass	4.0 tons	60	30[b]	40[b]	138	44	183	
Madley Rd 3 (grass)	2021	Grass	4.0 tons	175[b]	50[b]	80[b]	138	44	183	
Madley Rd 3 (grass)	2022	Grass	4.0 tons	175[b]	50[b]	80[b]	138	44	183	
Madley Rd 3 (grass)	2023	Grass	4.0 tons	175[b]	50[b]	80[b]	138	44	183	
Madley Bozworth (grass)	2021	Grass	4.0 tons	175[b]	50[b]	80[b]	138	44	183	
Madley Bozworth (grass)	2022	Grass	4.0 tons	175[b]	50[b]	80[b]	138	44	183	
Madley Bozworth (grass)	2023	Grass	4.0 tons	175[b]	50[b]	80[b]	138	44	183	
Madley Rd 4 (grass)	2021	Grass	4.0 tons	160[b]	80[b]	140[b]	138	44	183	
Madley Rd 4 (grass)	2022	Grass	4.0 tons	60	30[b]	40[b]	138	44	183	
Madley Rd 4 (grass)	2023	Grass	4.0 tons	60	30[b]	40[b]	138	44	183	
Waldens 1 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	60[b]	180	100	220	
Waldens 1 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	60[b]	180	100	220	
Waldens 1 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	60[b]	180	100	220	
Waldens 3 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	60[b]	180	100	220	
Waldens 3 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	60[b]	180	100	220	
Waldens 3 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	60[b]	180	100	220	
Waldens 6 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	120[b]	180	100	220	
Waldens 6 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	120[b]	180	100	220	
Waldens 6 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	120[b]	180	100	220	
Waldens 7 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	120[b]	180	100	220	
Waldens 7 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	120[b]	180	100	220	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Waldens 7 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	120[b]	180	100	220	
Waldens 10 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 10 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 10 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 11 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 11 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 11 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 12 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 12 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 12 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 45 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	80	180	100	220	
Waldens 45 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	80	180	100	220	
Waldens 45 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	80	180	100	220	
Waldens 14 (corn)	2021	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 14 (corn)	2022	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Waldens 14 (corn)	2023	Corn for Silage, convent	20.0 tons	175[b]	0	80[b]	180	100	220	
Segars 1 (corn)	2021	Corn for Silage, convent	30.0 tons	147	0	72	270	150	330	
Segars 1 (corn)	2022	Corn for Silage, convent	30.0 tons	147	0	72	270	150	330	
Segars 1 (corn)	2023	Corn for Silage, convent	30.0 tons	147	0	72	270	150	330	
Segars 2 (corn)	2021	Corn for Silage, convent	30.0 tons	147	46	128	270	150	330	
Segars 2 (corn)	2022	Corn for Silage, convent	30.0 tons	147	46	128	270	150	330	
Segars 2 (corn)	2023	Corn for Silage, convent	30.0 tons	147	46	128	270	150	330	
Segars 3 (grass)	2021	Grass	4.0 tons	160[b]	30[b]	140[b]	138	44	183	
Segars 3 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 3 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 4 (grass)	2021	Grass	4.0 tons	160[b]	30[b]	140[b]	138	44	183	
Segars 4 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 4 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 6 (grass)	2021	Grass	4.0 tons	160[b]	120[b]	180[b]	138	44	183	
Segars 6 (grass)	2022	Grass	4.0 tons	50	20	30	138	44	183	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Segars 6 (grass)	2023	Grass	4.0 tons	50	20	30	138	44	183	
Segars 7 (grass)	2021	Grass	4.0 tons	160[b]	120[b]	180[b]	138	44	183	
Segars 7 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
Segars 7 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
Segars 8 (grass)	2021	Grass	4.0 tons	160[b]	120[b]	180[b]	138	44	183	
Segars 8 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 8 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 9 (grass)	2021	Grass	4.0 tons	160[b]	0	180[b]	138	44	183	
Segars 9 (grass)	2022	Grass	4.0 tons	60	20[b]	40	138	44	183	
Segars 9 (grass)	2023	Grass	4.0 tons	60	20[b]	40	138	44	183	
Segars 10 (grass)	2021	Grass	4.0 tons	160[b]	0	140[b]	138	44	183	
Segars 10 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 10 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 11 (grass)	2021	Grass	4.0 tons	160[b]	0	120[b]	138	44	183	
Segars 11 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 11 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 12 (grass)	2021	Grass	4.0 tons	160[b]	0	120[b]	138	44	183	
Segars 12 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 12 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 13 (grass)	2021	Grass	4.0 tons	160[b]	0	120[b]	138	44	183	
Segars 13 (grass)	2022	Grass	4.0 tons	60	30[b]	40	138	44	183	
Segars 13 (grass)	2023	Grass	4.0 tons	60	30[b]	40	138	44	183	
Carneys 1 (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	160[b]	225	125	275	
Carneys 1 (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	160[b]	225	125	275	
Carneys 1 (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	160[b]	225	125	275	
Carneys 2 (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	160[b]	225	125	275	
Carneys 2 (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	160[b]	225	125	275	
Carneys 2 (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	160[b]	225	125	275	
Carneys 3 (corn)	2021	Corn for Silage, convent	25.0 tons	175[b]	0	160[b]	225	125	275	
Carneys 3 (corn)	2022	Corn for Silage, convent	25.0 tons	175[b]	0	160[b]	225	125	275	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
Carneys 3 (corn)	2023	Corn for Silage, convent	25.0 tons	175[b]	0	160[b]	225	125	275	
Carneys 4 (grass)	2021	Grass	4.0 tons	160[b]	120[b]	180[b]	138	44	183	
Carneys 4 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
Carneys 4 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
Carneys 5 (grass)	2021	Grass	4.0 tons	160[b]	120[b]	180[b]	138	44	183	
Carneys 5 (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
Carneys 5 (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
Synagogue Rd 3 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 3 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 3 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 4 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 4 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 4 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 5 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 5 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 5 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 6 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 6 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 6 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 9 (grass)	2021	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 9 (grass)	2022	Grass	4.0 tons	80	0	68	138	44	183	
Synagogue Rd 9 (grass)	2023	Grass	4.0 tons	80	0	68	138	44	183	
M City Rd 1 (corn)	2021	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
M City Rd 1 (corn)	2022	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	

Field	Crop Year	Planned Crop	Yield Goal (per ac)	N Rec (lbs/ac)	P_2O_5 Rec (lbs/ac)	K_2O Rec (lbs/ac)	N Removed (lbs/ac)	P_2O_5 Removed (lbs/ac)	K_2O Removed (lbs/ac)	Custom Fert. Rec. Source
M City Rd 1 (corn)	2023	Corn for Silage, convent	20.0 tons	147	0	128	180	100	220	
M City Rd 2 (corn)	2021	Corn for Silage, convent	20.0 tons	147	0	72	180	100	220	
M City Rd 2 (corn)	2022	Corn for Silage, convent	20.0 tons	147	0	72	180	100	220	
M City Rd 2 (corn)	2023	Corn for Silage, convent	20.0 tons	147	0	72	180	100	220	
M City Rd 3 (corn)	2021	Corn for Silage, convent	20.0 tons	147	0	72	180	100	220	
M City Rd 3 (corn)	2022	Corn for Silage, convent	20.0 tons	147	0	72	180	100	220	
M City Rd 3 (corn)	2023	Corn for Silage, convent	20.0 tons	147	0	72	180	100	220	
Winery (grass)	2021	Grass	4.0 tons	160[b]	0	180[b]	138	44	183	
Winery (grass)	2022	Grass	4.0 tons	60	20[b]	40	138	44	183	
Winery (grass)	2023	Grass	4.0 tons	60	20[b]	40	138	44	183	
Randazzo (grass)	2021	Grass	4.0 tons	160[b]	60[b]	140[b]	138	44	183	
Randazzo (grass)	2022	Grass	4.0 tons	60	30	40	138	44	183	
Randazzo (grass)	2023	Grass	4.0 tons	60	30	40	138	44	183	
Chappel Rd Corn (corn)	2021	Corn for Silage, convent	20.0 tons	147	46	128	180	100	220	
Chappel Rd Corn (corn)	2022	Corn for Silage, convent	20.0 tons	147	46	128	180	100	220	
Chappel Rd Corn (corn)	2023	Corn for Silage, convent	20.0 tons	147	46	128	180	100	220	
Chappel Rd Gras (grass)	2021	Grass	4.0 tons	80	0	31	138	44	183	
Chappel Rd Gras (grass)	2022	Grass	4.0 tons	80	0	31	138	44	183	
Chappel Rd Gras (grass)	2023	Grass	4.0 tons	80	0	31	138	44	183	
Xmas Tree Grass (grass)	2021	Grass	4.0 tons	80	0	31	138	44	183	
Xmas Tree Grass (grass)	2022	Grass	4.0 tons	80	0	31	138	44	183	
Xmas Tree Grass (grass)	2023	Grass	4.0 tons	80	0	31	138	44	183	

a. Unharvested cover crop or first crop in double-crop system.
b. Custom fertilizer recommendation.

6.6. Manure Application Planning Calendar – November 2020 through October 2021 (wagon loads per field)

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2021 Crop (Prev. Primary Crop)	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21
Strauss 2 (corn)	10.7	10.7	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						16.1						16.1
Strauss 4 (grass)	5.3	5.0	Canton SPM (61B 0-8%)	Grass (Grass)							5.0			5.0		
Strauss 6 (corn)	3.1	3.1	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						4.7						4.7
Strauss 7 (corn)	3.2	3.2	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						4.8						4.4
Strauss 12 (grass)	3.1	2.9	Canton FSL (60B 3-8%)	Grass (Grass)							2.9			2.9		
Strauss 13 (corn)	8.4	8.4	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						12.6						12.6
Strauss 5 (corn)	3.7	3.7	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						5.6						5.6
Bender/V.Hill3A (corn)	5.6	5.6	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Bender/V.Hill3B (grass)	6.6	6.6	Paxton FSL (84B 3-8%)	Grass (Grass)							X			X		
Bender/V.Hill 4 (grass)	11.8	11.4	Paxton FSL (84B 3-8%)	Grass (Grass)							X			X		
Bender/V.Hill 5 (corn)	5.2	5.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Bender/V.Hill 6 (corn)	14.7	14.0	Woodbridge FSL (45A 0-3%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Flegerts 1 (corn)	3.8	3.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						5.8						5.8
Flegerts 2 (corn)	8.6	8.6	Woodbridge FSL (45C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)						13.0						13.0
Flegerts 3 (corn)	0.7	0.7	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						1.1						1.1
Flegerts 4 (corn)	7.0	7.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						10.5						10.5
Flegerts 5 (corn)	4.9	4.9	Paxton MPM (85B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						7.4						7.4
Flegerts 6 (corn)	3.0	3.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						4.5	X					4.5
Home Farm 1 (corn)	53.2	53.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Home Farm 2 (corn)	19.8	19.8	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2021 Crop (Prev. Primary Crop)	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21
Home Farm 4 (corn)	8.1	8.1	Paxton MPM (85B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Home Farm 5 (grass)	7.8	7.8	Sutton FSL (51B 2-8%)	Grass (Grass)						X	X	X		X		X
Home Farm 6 (grass)	2.7	2.7	Paxton FSL (84D 15-25%)	Grass (Grass)						X		X		X		X
Scanlon big lot (corn)	19.5	19.5	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Scanlon middle (corn)	3.2	3.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Scanlon back (corn)	7.0	6.5	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Scanlon front (corn)	4.5	4.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Left of Scanlon (grass)	5.3	5.2	Paxton FSL (84B 3-8%)	Grass (Grass)							X					X
EvergreenFarm 1 (grass)	14.5	13.0	Chatfield HPM (73E 15-45%)	Grass (Grass)							13.0			13.0		
EvergreenFarm 2 (corn)	4.6	3.4	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
EvergreenFarm 3 (corn)	11.6	9.1	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
EvergreenFarm 4 (corn)	2.8	2.5	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
EvergreenFarm 5 (corn)	3.1	3.1	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
EvergreenFarm 7 (grass)	3.0	3.0	Hinckley MPM (38C 3-15%)	Grass (Grass)							3.0			3.0		
Young Stock 1 (corn)	3.8	3.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						7.6						2.2
Young Stock 5 (corn)	7.4	7.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						14.0						14.0
Young Stock 6 (corn)	2.4	2.4	Woodbridge MPM (46B 0-8%)	Corn for Silage, convent (Corn for Silage, convent)						4.8						4.8
Young Stock 7 (grass)	3.2	3.0	Woodbridge FSL (45A 0-3%)	Grass (Grass)							X					X
Young Stock 9 (grass)	6.8	6.8	Paxton FSL (84C 8-15%)	Grass (Grass)							X					X
Flora (corn)	10.0	10.0	Woodbridge FSL (45A 0-3%)	Corn for Silage, convent (Corn for Silage, convent)						20.0						20.0
Keys (grass)	3.4	2.8	Woodbridge FSL (45A 0-3%)	Grass (Grass)						X		X		X		X

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2021 Crop (Prev. Primary Crop)	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21
Krause 1 (grass)	11.3	11.1	Charlton MPM (62C 3-15%)	Grass (Grass)							X			X		
Krause 3 (grass)	36.6	35.5	Hollis HPM (75C 3-15%)	Grass (Grass)							X			X		
Krause 5 (corn)	18.8	18.8	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Krause 6 (grass)	8.9	8.9	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X			X		
Krause 7 (corn)	9.4	9.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Krause 8 (corn)	27.0	27.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Krause 11 (fallo)	14.7	14.7	Woodbridge MPM (47C 3-15%)	Fallow (Fallow)												
Pultz 1 (corn)	8.4	8.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Pultz 2 (grass)	15.6	15.6	Paxton FSL (84C 8-15%)	Grass (Grass)										15.7		
ScanlonPumpkLot (corn)	2.8	2.8	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
PigeonSwamp1 (corn)	11.0	11.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
BoggLnAbovePond (grass)	9.3	9.3	Paxton FSL (84C 8-15%)	Grass (Grass)							9.3			9.3		
BoggLn Valley1 (corn)	21.5	20.1	Agawam FSL (29B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						30.2						30.2
Bogg Ln 1 (grass)	17.0	15.7	Ridgebury MPM (2 0-3%)	Grass (Grass)							X					X
Bogg Ln 2 (grass)	6.1	6.0	Canton FSL (60B 3-8%)	Grass (Grass)							X					X
10acre Lot (corn)	9.5	6.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
LowBabcockHill1 (grass)	25.3	25.2	Ridgebury MPM (3 0-8%)	Grass (Grass)										X		X
LowBabcockHill2 (corn)	10.7	8.6	Ridgebury MPM (3 0-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
LowBabcockHill3 (grass)	11.6	11.6	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		X
Kick Hill Lot (corn)	19.8	19.7	Montauk FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
McCaw (corn)	11.3	11.3	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2021 Crop (Prev. Primary Crop)	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21
Briggs Rd (corn)	29.2	29.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Bender 1 (grass)	17.4	17.3	Montauk FSL (84B 3-8%)	Grass (Grass)							X					
Bender 2 (grass)	7.6	7.3	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Bender 7 (corn)	18.4	18.4	Montauk FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Bender 9 (fallo)	1.6	1.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)												
Bender 11 (fallo)	4.6	4.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)												
Bender 19 (grass)	8.8	8.8	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Stebner 1 (grass)	14.9	14.9	Woodbridge FSL (45A 0-3%)	Grass (Grass)										X		
Stebner 2 (corn)	8.2	8.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Stebner 3 (grass)	22.0	22.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		
Stebner 4 (grass)	11.1	11.1	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		
Stebner 5 (corn)	6.1	6.1	Woodbridge FSL (45A 0-3%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Xmas Tree Corn (corn)	24.2	24.2	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Babcock Hill 1 (grass)	16.0	12.2	Montauk FSL (84B 3-8%)	Grass (Grass)										X		X
Babcock Hill 2 (corn)	38.6	38.6	Montauk FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Babcock Hill 3 (grass)	21.3	21.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		X
Babcock Hill 6 (corn)	6.9	6.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Babcock Hill 10 (corn)	3.4	3.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Babcock Hill 11 (corn)	5.5	4.5	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Madley Rd 1 (grass)	1.9	1.5	Paxton FSL (84B 3-8%)	Grass (Grass)							X					X
Madley Rd 2 (grass)	2.6	2.6	Woodbridge FSL (45A 0-3%)	Grass (Grass)							X					X

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2021 Crop (Prev. Primary Crop)	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21
Madley Rd 3 (grass)	6.9	6.9	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Madley Bozworth (grass)	5.0	5.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Madley Rd 4 (grass)	4.0	3.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					X
Waldens 1 (corn)	8.9	8.9	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 3 (corn)	9.7	9.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 6 (corn)	15.9	15.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 7 (corn)	1.1	1.1	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 10 (corn)	4.6	4.6	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 11 (corn)	1.1	1.1	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 12 (corn)	2.9	2.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 45 (corn)	35.0	35.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 14 (corn)	1.0	1.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Segars 1 (corn)	5.9	5.6	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						8.5						8.5
Segars 2 (corn)	9.1	9.1	Paxton FSL (84C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)						13.7						13.7
Segars 3 (grass)	3.6	2.7	Leicester MPM (3 0-8%)	Grass (Grass)							X					
Segars 4 (grass)	5.1	5.1	Paxton FSL (84B 3-8%)	Grass (Grass)							X					
Segars 6 (grass)	1.8	0.5	Ridgebury MPM (2 0-3%)	Grass (Grass)							X					X
Segars 7 (grass)	12.1	12.0	Charlton FSL (60B 3-8%)	Grass (Grass)							X					X
Segars 8 (grass)	10.1	9.8	Charlton FSL (60B 3-8%)	Grass (Grass)							X					
Segars 9 (grass)	4.2	4.2	Sutton FSL (50B 3-8%)	Grass (Grass)							X					
Segars 10 (grass)	2.1	1.9	Sutton FSL (52C 2-15%)	Grass (Grass)							X					

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2021 Crop (Prev. Primary Crop)	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21
Segars 11 (grass)	6.9	6.7	Charlton MPM (61B 0-8%)	Grass (Grass)							X					
Segars 12 (grass)	5.3	4.0	Woodbridge MPM (47C 3-15%)	Grass (Grass)							X					
Segars 13 (grass)	8.4	6.4	Woodbridge MPM (47C 3-15%)	Grass (Grass)							X					
Carneys 1 (corn)	9.1	9.1	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						13.7						13.7
Carneys 2 (corn)	4.3	4.3	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						6.5						6.5
Carneys 3 (corn)	17.8	17.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						26.6						26.6
Carneys 4 (grass)	3.2	3.2	Woodbridge FSL (45B 3-8%)	Grass (Grass)							3.2					3.2
Carneys 5 (grass)	6.4	5.6	Agawam FSL (29A 0-3%)	Grass (Grass)							5.6					5.9
Synagogue Rd 3 (grass)	4.6	4.6	Pootatuck FSL (102 0-3%)	Grass (Grass)							4.6			4.6		
Synagogue Rd 4 (grass)	4.8	4.8	Rippowam FSL (103 0-3%)	Grass (Grass)							4.8			4.8		
Synagogue Rd 5 (grass)	6.3	6.0	Merrimac FSL (34B 3-8%)	Grass (Grass)							6.0			0.8		
Synagogue Rd 6 (grass)	4.1	4.1	Charlton FSL (60B 3-8%)	Grass (Grass)							4.1			4.1		
Synagogue Rd 9 (grass)	2.6	0.8	Pootatuck FSL (102 0-3%)	Grass (Grass)							0.8			0.8		
M City Rd 1 (corn)	4.4	4.3	Ninigret FSL (21A 0-5%)	Corn for Silage, convent (Corn for Silage, convent)						6.5						6.5
M City Rd 2 (corn)	12.7	12.5	Charlton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)						18.8						18.8
M City Rd 3 (corn)	2.3	2.3	Wilbraham MPM (6 0-8%)	Corn for Silage, convent (Corn for Silage, convent)						3.5						3.5
Winery (grass)	27.0	27.0	Paxton FSL (84C 8-15%)	Grass (Grass)										27.0		
Randazzo (grass)	14.4	14.4	Paxton FSL (84C 8-15%)	Grass (Grass)							14.4					
Chappel Rd Corn (corn)	12.0	12.0	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Chappel Rd Gras (grass)	5.0	5.0	Canton FSL (60B 3-8%)	Grass (Grass)										X		
Xmas Tree Grass (grass)	20.0	20.0	Charlton FSL (60B 3-8%)	Grass (Grass)										X		

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2021 Crop (Prev. Primary Crop)	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21
Total	*1,225.4*	*1,188.8*								*260.5 X*	*76.7 X*	*X*		*91.0 X*		*263.8 X*

Crop in field	No. indicates total loads "X" indicates other manure apps

Manure Application Planning Calendar – November 2021 through October 2022

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2022 Crop (Prev. Primary Crop)	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22
Strauss 2 (corn)	10.7	10.7	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						16.1						16.1
Strauss 4 (grass)	5.3	5.0	Canton SPM (61B 0-8%)	Grass (Grass)							5.0			5.0		
Strauss 6 (corn)	3.1	3.1	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						0.1						4.7
Strauss 7 (corn)	3.2	3.2	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						0.5						4.8
Strauss 12 (grass)	3.1	2.9	Canton FSL (60B 3-8%)	Grass (Grass)							2.9			2.9		
Strauss 13 (corn)	8.4	8.4	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						12.6						12.6
Strauss 5 (corn)	3.7	3.7	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						5.6						5.6
Bender/V.Hill3A (corn)	5.6	5.6	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Bender/V.Hill3B (grass)	6.6	6.6	Paxton FSL (84B 3-8%)	Grass (Grass)							X			X		
Bender/V.Hill 4 (grass)	11.8	11.4	Paxton FSL (84B 3-8%)	Grass (Grass)							X			X		
Bender/V.Hill 5 (corn)	5.2	5.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Bender/V.Hill 6 (corn)	14.7	14.0	Woodbridge FSL (45A 0-3%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Flegerts 1 (corn)	3.8	3.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						5.7						5.8
Flegerts 2 (corn)	8.6	8.6	Woodbridge FSL (45C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)						12.8						13.0
Flegerts 3 (corn)	0.7	0.7	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						0.1						1.5
Flegerts 4 (corn)	7.0	7.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						10.5						10.9
Flegerts 5 (corn)	4.9	4.9	Paxton MPM (85B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						7.4						7.5
Flegerts 6 (corn)	3.0	3.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						4.5						4.6
Home Farm 1 (corn)	53.2	53.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Home Farm 2 (corn)	19.8	19.8	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2022 Crop (Prev. Primary Crop)	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22
Home Farm 4 (corn)	8.1	8.1	Paxton MPM (85B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Home Farm 5 (grass)	7.8	7.8	Sutton FSL (51B 2-8%)	Grass (Grass)						X	X	X		X		X
Home Farm 6 (grass)	2.7	2.7	Paxton FSL (84D 15-25%)	Grass (Grass)						X	X	X		X		X
Scanlon big lot (corn)	19.5	19.5	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Scanlon middle (corn)	3.2	3.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Scanlon back (corn)	7.0	6.5	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Scanlon front (corn)	4.5	4.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Left of Scanlon (grass)	5.3	5.2	Paxton FSL (84B 3-8%)	Grass (Grass)							X					X
EvergreenFarm 1 (grass)	14.5	13.0	Chatfield HPM (73E 15-45%)	Grass (Grass)							13.0			13.0		
EvergreenFarm 2 (corn)	4.6	3.4	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
EvergreenFarm 3 (corn)	11.6	9.1	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
EvergreenFarm 4 (corn)	2.8	2.5	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
EvergreenFarm 5 (corn)	3.1	3.1	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
EvergreenFarm 7 (grass)	3.0	3.0	Hinckley MPM (38C 3-15%)	Grass (Grass)							3.0			3.0		
Young Stock 1 (corn)	3.8	3.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						7.5						2.4
Young Stock 5 (corn)	7.4	7.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						14.0						14.3
Young Stock 6 (corn)	2.4	2.4	Woodbridge MPM (46B 0-8%)	Corn for Silage, convent (Corn for Silage, convent)						4.8						4.8
Young Stock 7 (grass)	3.2	3.0	Woodbridge FSL (45A 0-3%)	Grass (Grass)							X					X
Young Stock 9 (grass)	6.8	6.8	Paxton FSL (84C 8-15%)	Grass (Grass)							X					X
Flora (corn)	10.0	10.0	Woodbridge FSL (45A 0-3%)	Corn for Silage, convent (Corn for Silage, convent)						20.0						20.3
Keys (grass)	3.4	2.8	Woodbridge FSL (45A 0-3%)	Grass (Grass)						X		X		X		X

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2022 Crop (Prev. Primary Crop)	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22
Krause 1 (grass)	11.3	11.1	Charlton MPM (62C 3-15%)	Grass (Grass)							X			X		
Krause 3 (grass)	36.6	35.5	Hollis HPM (75C 3-15%)	Grass (Grass)							X			X		
Krause 5 (corn)	18.8	18.8	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Krause 6 (grass)	8.9	8.9	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X			X		
Krause 7 (corn)	9.4	9.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Krause 8 (corn)	27.0	27.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Krause 11 (fallo)	14.7	14.7	Woodbridge MPM (47C 3-15%)	Fallow (Fallow)												
Pultz 1 (corn)	8.4	8.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Pultz 2 (grass)	15.6	15.6	Paxton FSL (84C 8-15%)	Grass (Grass)										15.7		
ScanlonPumpkLot (corn)	2.8	2.8	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
PigeonSwamp1 (corn)	11.0	11.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
BoggLnAbovePond (grass)	9.3	9.3	Paxton FSL (84C 8-15%)	Grass (Grass)							9.3			9.3		
BoggLn Valley1 (corn)	21.5	20.1	Agawam FSL (29B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						30.1						30.2
Bogg Ln 1 (grass)	17.0	15.7	Ridgebury MPM (2 0-3%)	Grass (Grass)							X					X
Bogg Ln 2 (grass)	6.1	6.0	Canton FSL (60B 3-8%)	Grass (Grass)							X					X
10acre Lot (corn)	9.5	6.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
LowBabcockHill1 (grass)	25.3	25.2	Ridgebury MPM (3 0-8%)	Grass (Grass)										X		X
LowBabcockHill2 (corn)	10.7	8.6	Ridgebury MPM (3 0-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
LowBabcockHill3 (grass)	11.6	11.6	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		X
Kick Hill Lot (corn)	19.8	19.7	Montauk FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
McCaw (corn)	11.3	11.3	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2022 Crop (Prev. Primary Crop)	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22
Briggs Rd (corn)	29.2	29.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Bender 1 (grass)	17.4	17.3	Montauk FSL (84B 3-8%)	Grass (Grass)							X					
Bender 2 (grass)	7.6	7.3	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Bender 7 (corn)	18.4	18.4	Montauk FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Bender 9 (fallo)	1.6	1.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)												
Bender 11 (fallo)	4.6	4.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)												
Bender 19 (grass)	8.8	8.8	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Stebner 1 (grass)	14.9	14.9	Woodbridge FSL (45A 0-3%)	Grass (Grass)										X		
Stebner 2 (corn)	8.2	8.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Stebner 3 (grass)	22.0	22.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		
Stebner 4 (grass)	11.1	11.1	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		
Stebner 5 (corn)	6.1	6.1	Woodbridge FSL (45A 0-3%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Xmas Tree Corn (corn)	24.2	24.2	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Babcock Hill 1 (grass)	16.0	12.2	Montauk FSL (84B 3-8%)	Grass (Grass)										X		X
Babcock Hill 2 (corn)	38.6	38.6	Montauk FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Babcock Hill 3 (grass)	21.3	21.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		X
Babcock Hill 6 (corn)	6.9	6.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Babcock Hill 10 (corn)	3.4	3.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Babcock Hill 11 (corn)	5.5	4.5	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Madley Rd 1 (grass)	1.9	1.5	Paxton FSL (84B 3-8%)	Grass (Grass)							X					X
Madley Rd 2 (grass)	2.6	2.6	Woodbridge FSL (45A 0-3%)	Grass (Grass)							X					X

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2022 Crop (Prev. Primary Crop)	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22
Madley Rd 3 (grass)	6.9	6.9	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Madley Bozworth (grass)	5.0	5.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Madley Rd 4 (grass)	4.0	3.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					X
Waldens 1 (corn)	8.9	8.9	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 3 (corn)	9.7	9.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 6 (corn)	15.9	15.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 7 (corn)	1.1	1.1	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 10 (corn)	4.6	4.6	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 11 (corn)	1.1	1.1	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 12 (corn)	2.9	2.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 45 (corn)	35.0	35.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Waldens 14 (corn)	1.0	1.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Segars 1 (corn)	5.9	5.6	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						8.3						8.5
Segars 2 (corn)	9.1	9.1	Paxton FSL (84C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)						13.7						13.7
Segars 3 (grass)	3.6	2.7	Leicester MPM (3 0-8%)	Grass (Grass)							2.7					3.0
Segars 4 (grass)	5.1	5.1	Paxton FSL (84B 3-8%)	Grass (Grass)							X					
Segars 6 (grass)	1.8	0.5	Ridgebury MPM (2 0-3%)	Grass (Grass)							X					X
Segars 7 (grass)	12.1	12.0	Charlton FSL (60B 3-8%)	Grass (Grass)							X					
Segars 8 (grass)	10.1	9.8	Charlton FSL (60B 3-8%)	Grass (Grass)							X					
Segars 9 (grass)	4.2	4.2	Sutton FSL (50B 3-8%)	Grass (Grass)							X					
Segars 10 (grass)	2.1	1.9	Sutton FSL (52C 2-15%)	Grass (Grass)							1.9					2.4

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2022 Crop (Prev. Primary Crop)	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22
Segars 11 (grass)	6.9	6.7	Charlton MPM (61B 0-8%)	Grass (Grass)							X					
Segars 12 (grass)	5.3	4.0	Woodbridge MPM (47C 3-15%)	Grass (Grass)							X					
Segars 13 (grass)	8.4	6.4	Woodbridge MPM (47C 3-15%)	Grass (Grass)							X					
Carneys 1 (corn)	9.1	9.1	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						13.7						13.9
Carneys 2 (corn)	4.3	4.3	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						6.5						6.5
Carneys 3 (corn)	17.8	17.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						26.6						27.0
Carneys 4 (grass)	3.2	3.2	Woodbridge FSL (45B 3-8%)	Grass (Grass)							3.2					3.2
Carneys 5 (grass)	6.4	5.6	Agawam FSL (29A 0-3%)	Grass (Grass)							5.3					5.6
Synagogue Rd 3 (grass)	4.6	4.6	Pootatuck FSL (102 0-3%)	Grass (Grass)							4.6			4.6		
Synagogue Rd 4 (grass)	4.8	4.8	Rippowam FSL (103 0-3%)	Grass (Grass)							4.8			4.8		
Synagogue Rd 5 (grass)	6.3	6.0	Merrimac FSL (34B 3-8%)	Grass (Grass)							6.0			6.0		
Synagogue Rd 6 (grass)	4.1	4.1	Charlton FSL (60B 3-8%)	Grass (Grass)							4.1			4.1		
Synagogue Rd 9 (grass)	2.6	0.8	Pootatuck FSL (102 0-3%)	Grass (Grass)							0.8			0.8		
M City Rd 1 (corn)	4.4	4.3	Ninigret FSL (21A 0-5%)	Corn for Silage, convent (Corn for Silage, convent)						6.5						6.6
M City Rd 2 (corn)	12.7	12.5	Charlton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)						18.8						18.9
M City Rd 3 (corn)	2.3	2.3	Wilbraham MPM (6 0-8%)	Corn for Silage, convent (Corn for Silage, convent)						3.5						3.5
Winery (grass)	27.0	27.0	Paxton FSL (84C 8-15%)	Grass (Grass)										27.0		
Randazzo (grass)	14.4	14.4	Paxton FSL (84C 8-15%)	Grass (Grass)							14.4					
Chappel Rd Corn (corn)	12.0	12.0	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						X
Chappel Rd Gras (grass)	5.0	5.0	Canton FSL (60B 3-8%)	Grass (Grass)										X		
Xmas Tree Grass (grass)	20.0	20.0	Charlton FSL (60B 3-8%)	Grass (Grass)										X		

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2022 Crop (Prev. Primary Crop)	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22
Total	*1,225.4*	*1,188.8*								*249.9 X*	*81.0 X*	*X*		*96.2 X*		*271.9 X*

Crop in field	No. indicates total loads "X" indicates other manure apps

Manure Application Planning Calendar – November 2022 through October 2023

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2023 Crop (Prev. Primary Crop)	Nov '22	Dec '22	Jan '23	Feb '23	Mar '23	Apr '23	May '23	Jun '23	Jul '23	Aug '23	Sep '23	Oct '23
Strauss 2 (corn)	10.7	10.7	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						16.1						
Strauss 4 (grass)	5.3	5.0	Canton SPM (61B 0-8%)	Grass (Grass)							5.0			5.0		
Strauss 6 (corn)	3.1	3.1	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						0.1						
Strauss 7 (corn)	3.2	3.2	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						4.8						
Strauss 12 (grass)	3.1	2.9	Canton FSL (60B 3-8%)	Grass (Grass)							2.9			2.9		
Strauss 13 (corn)	8.4	8.4	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						12.6						
Strauss 5 (corn)	3.7	3.7	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						5.6						
Bender/V.Hill3A (corn)	5.6	5.6	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Bender/V.Hill3B (grass)	6.6	6.6	Paxton FSL (84B 3-8%)	Grass (Grass)							X			X		
Bender/V.Hill 4 (grass)	11.8	11.4	Paxton FSL (84B 3-8%)	Grass (Grass)							X			X		
Bender/V.Hill 5 (corn)	5.2	5.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Bender/V.Hill 6 (corn)	14.7	14.0	Woodbridge FSL (45A 0-3%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Flegerts 1 (corn)	3.8	3.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						5.7						
Flegerts 2 (corn)	8.6	8.6	Woodbridge FSL (45C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)						12.8						
Flegerts 3 (corn)	0.7	0.7	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						0.1						
Flegerts 4 (corn)	7.0	7.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						10.5						
Flegerts 5 (corn)	4.9	4.9	Paxton MPM (85B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						7.4						
Flegerts 6 (corn)	3.0	3.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						4.5						
Home Farm 1 (corn)	53.2	53.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Home Farm 2 (corn)	19.8	19.8	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2023 Crop (Prev. Primary Crop)	Nov '22	Dec '22	Jan '23	Feb '23	Mar '23	Apr '23	May '23	Jun '23	Jul '23	Aug '23	Sep '23	Oct '23
Home Farm 4 (corn)	8.1	8.1	Paxton MPM (85B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Home Farm 5 (grass)	7.8	7.8	Sutton FSL (51B 2-8%)	Grass (Grass)						X	X	X		X		
Home Farm 6 (grass)	2.7	2.7	Paxton FSL (84D 15-25%)	Grass (Grass)						X	X	X		X		
Scanlon big lot (corn)	19.5	19.5	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Scanlon middle (corn)	3.2	3.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Scanlon back (corn)	7.0	6.5	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Scanlon front (corn)	4.5	4.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Left of Scanlon (grass)	5.3	5.2	Paxton FSL (84B 3-8%)	Grass (Grass)							X					
EvergreenFarm 1 (grass)	14.5	13.0	Chatfield HPM (73E 15-45%)	Grass (Grass)							13.0			13.0		
EvergreenFarm 2 (corn)	4.6	3.4	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						X						
EvergreenFarm 3 (corn)	11.6	9.1	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						X						
EvergreenFarm 4 (corn)	2.8	2.5	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)						X						
EvergreenFarm 5 (corn)	3.1	3.1	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
EvergreenFarm 7 (grass)	3.0	3.0	Hinckley MPM (38C 3-15%)	Grass (Grass)							3.0			3.0		
Young Stock 1 (corn)	3.8	3.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						7.5						
Young Stock 5 (corn)	7.4	7.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						14.0						
Young Stock 6 (corn)	2.4	2.4	Woodbridge MPM (46B 0-8%)	Corn for Silage, convent (Corn for Silage, convent)						4.8						
Young Stock 7 (grass)	3.2	3.0	Woodbridge FSL (45A 0-3%)	Grass (Grass)							X					
Young Stock 9 (grass)	6.8	6.8	Paxton FSL (84C 8-15%)	Grass (Grass)							X					
Flora (corn)	10.0	10.0	Woodbridge FSL (45A 0-3%)	Corn for Silage, convent (Corn for Silage, convent)						20.0						
Keys (grass)	3.4	2.8	Woodbridge FSL (45A 0-3%)	Grass (Grass)						X		X		X		

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2023 Crop (Prev. Primary Crop)	Nov '22	Dec '22	Jan '23	Feb '23	Mar '23	Apr '23	May '23	Jun '23	Jul '23	Aug '23	Sep '23	Oct '23
Krause 1 (grass)	11.3	11.1	Charlton MPM (62C 3-15%)	Grass (Grass)							X			X		
Krause 3 (grass)	36.6	35.5	Hollis HPM (75C 3-15%)	Grass (Grass)							X			X		
Krause 5 (corn)	18.8	18.8	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Krause 6 (grass)	8.9	8.9	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X			X		
Krause 7 (corn)	9.4	9.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Krause 8 (corn)	27.0	27.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Krause 11 (fallo)	14.7	14.7	Woodbridge MPM (47C 3-15%)	Fallow (Fallow)												
Pultz 1 (corn)	8.4	8.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Pultz 2 (grass)	15.6	15.6	Paxton FSL (84C 8-15%)	Grass (Grass)										15.7		
ScanlonPumpkLot (corn)	2.8	2.8	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
PigeonSwamp1 (corn)	11.0	11.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
BoggLnAbovePond (grass)	9.3	9.3	Paxton FSL (84C 8-15%)	Grass (Grass)							9.3			9.3		
BoggLn Valley1 (corn)	21.5	20.1	Agawam FSL (29B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						30.1						
Bogg Ln 1 (grass)	17.0	15.7	Ridgebury MPM (2 0-3%)	Grass (Grass)							X					
Bogg Ln 2 (grass)	6.1	6.0	Canton FSL (60B 3-8%)	Grass (Grass)							X					
10acre Lot (corn)	9.5	6.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
LowBabcockHill1 (grass)	25.3	25.2	Ridgebury MPM (3 0-8%)	Grass (Grass)										X		
LowBabcockHill2 (corn)	10.7	8.6	Ridgebury MPM (3 0-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
LowBabcockHill3 (grass)	11.6	11.6	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		
Kick Hill Lot (corn)	19.8	19.7	Montauk FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
McCaw (corn)	11.3	11.3	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2023 Crop (Prev. Primary Crop)	Nov '22	Dec '22	Jan '23	Feb '23	Mar '23	Apr '23	May '23	Jun '23	Jul '23	Aug '23	Sep '23	Oct '23
Briggs Rd (corn)	29.2	29.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Bender 1 (grass)	17.4	17.3	Montauk FSL (84B 3-8%)	Grass (Grass)							X					
Bender 2 (grass)	7.6	7.3	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Bender 7 (corn)	18.4	18.4	Montauk FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Bender 9 (fallo)	1.6	1.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)												
Bender 11 (fallo)	4.6	4.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)												
Bender 19 (grass)	8.8	8.8	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Stebner 1 (grass)	14.9	14.9	Woodbridge FSL (45A 0-3%)	Grass (Grass)										X		
Stebner 2 (corn)	8.2	8.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Stebner 3 (grass)	22.0	22.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		
Stebner 4 (grass)	11.1	11.1	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		
Stebner 5 (corn)	6.1	6.1	Woodbridge FSL (45A 0-3%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Xmas Tree Corn (corn)	24.2	24.2	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Babcock Hill 1 (grass)	16.0	12.2	Montauk FSL (84B 3-8%)	Grass (Grass)										X		
Babcock Hill 2 (corn)	38.6	38.6	Montauk FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Babcock Hill 3 (grass)	21.3	21.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)										X		
Babcock Hill 6 (corn)	6.9	6.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Babcock Hill 10 (corn)	3.4	3.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Babcock Hill 11 (corn)	5.5	4.5	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Madley Rd 1 (grass)	1.9	1.5	Paxton FSL (84B 3-8%)	Grass (Grass)							X					
Madley Rd 2 (grass)	2.6	2.6	Woodbridge FSL (45A 0-3%)	Grass (Grass)							X					

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2023 Crop (Prev. Primary Crop)	Nov '22	Dec '22	Jan '23	Feb '23	Mar '23	Apr '23	May '23	Jun '23	Jul '23	Aug '23	Sep '23	Oct '23
Madley Rd 3 (grass)	6.9	6.9	Woodbridge FSL (45B 3-8%)	Grass (Grass)												
Madley Bozworth (grass)	5.0	5.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Madley Rd 4 (grass)	4.0	3.0	Woodbridge FSL (45B 3-8%)	Grass (Grass)							X					
Waldens 1 (corn)	8.9	8.9	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Waldens 3 (corn)	9.7	9.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Waldens 6 (corn)	15.9	15.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Waldens 7 (corn)	1.1	1.1	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Waldens 10 (corn)	4.6	4.6	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Waldens 11 (corn)	1.1	1.1	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Waldens 12 (corn)	2.9	2.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Waldens 45 (corn)	35.0	35.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Waldens 14 (corn)	1.0	1.0	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Segars 1 (corn)	5.9	5.6	Charlton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						8.3						
Segars 2 (corn)	9.1	9.1	Paxton FSL (84C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)						13.7						
Segars 3 (grass)	3.6	2.7	Leicester MPM (3 0-8%)	Grass (Grass)							2.4					
Segars 4 (grass)	5.1	5.1	Paxton FSL (84B 3-8%)	Grass (Grass)							X					
Segars 6 (grass)	1.8	0.5	Ridgebury MPM (2 0-3%)	Grass (Grass)							X					
Segars 7 (grass)	12.1	12.0	Charlton FSL (60B 3-8%)	Grass (Grass)							X					
Segars 8 (grass)	10.1	9.8	Charlton FSL (60B 3-8%)	Grass (Grass)							X					
Segars 9 (grass)	4.2	4.2	Sutton FSL (50B 3-8%)	Grass (Grass)							X					
Segars 10 (grass)	2.1	1.9	Sutton FSL (52C 2-15%)	Grass (Grass)							1.4					

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2023 Crop (Prev. Primary Crop)	Nov '22	Dec '22	Jan '23	Feb '23	Mar '23	Apr '23	May '23	Jun '23	Jul '23	Aug '23	Sep '23	Oct '23
Segars 11 (grass)	6.9	6.7	Charlton MPM (61B 0-8%)	Grass (Grass)							X					
Segars 12 (grass)	5.3	4.0	Woodbridge MPM (47C 3-15%)	Grass (Grass)							X					
Segars 13 (grass)	8.4	6.4	Woodbridge MPM (47C 3-15%)	Grass (Grass)												
Carneys 1 (corn)	9.1	9.1	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						13.7						
Carneys 2 (corn)	4.3	4.3	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						6.5						
Carneys 3 (corn)	17.8	17.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						26.6						
Carneys 4 (grass)	3.2	3.2	Woodbridge FSL (45B 3-8%)	Grass (Grass)							3.2					
Carneys 5 (grass)	6.4	5.6	Agawam FSL (29A 0-3%)	Grass (Grass)							5.6					
Synagogue Rd 3 (grass)	4.6	4.6	Pootatuck FSL (102 0-3%)	Grass (Grass)							4.6			4.6		
Synagogue Rd 4 (grass)	4.8	4.8	Rippowam FSL (103 0-3%)	Grass (Grass)							4.8			4.8		
Synagogue Rd 5 (grass)	6.3	6.0	Merrimac FSL (34B 3-8%)	Grass (Grass)							6.0			6.0		
Synagogue Rd 6 (grass)	4.1	4.1	Charlton FSL (60B 3-8%)	Grass (Grass)							4.1			4.1		
Synagogue Rd 9 (grass)	2.6	0.8	Pootatuck FSL (102 0-3%)	Grass (Grass)							0.8			0.8		
M City Rd 1 (corn)	4.4	4.3	Ninigret FSL (21A 0-5%)	Corn for Silage, convent (Corn for Silage, convent)						6.5						
M City Rd 2 (corn)	12.7	12.5	Charlton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)						18.8						
M City Rd 3 (corn)	2.3	2.3	Wilbraham MPM (6 0-8%)	Corn for Silage, convent (Corn for Silage, convent)						3.5						
Winery (grass)	27.0	27.0	Paxton FSL (84C 8-15%)	Grass (Grass)										27.0		
Randazzo (grass)	14.4	14.4	Paxton FSL (84C 8-15%)	Grass (Grass)							14.4					
Chappel Rd Corn (corn)	12.0	12.0	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)						X						
Chappel Rd Gras (grass)	5.0	5.0	Canton FSL (60B 3-8%)	Grass (Grass)										X		
Xmas Tree Grass (grass)	20.0	20.0	Charlton FSL (60B 3-8%)	Grass (Grass)										X		

Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2023 Crop (Prev. Primary Crop)	Nov '22	Dec '22	Jan '23	Feb '23	Mar '23	Apr '23	May '23	Jun '23	Jul '23	Aug '23	Sep '23	Oct '23
Total	*1,225.4*	*1,188.8*								*254.2 X*	*80.5 X*	*X*		*96.2 X*		

Crop in field	No. indicates total loads "X" indicates other manure apps

6.7. Planned Nutrient Applications (Manure-spreadable Area)

This table shows a field-by-field manure application rate and fertilizer recommendation from the soil test lab.
The farm is on a soil P-reduction plan to work towards bringing soil test P concentrations closer to Optimum (15-20 lbs/ac) on the soil test reports. For soils with P values (Mod. Morgan) greater than 40 lbs/ac, manure nutrient applications are recommended at 75% of crop removal – which is believed to lead to a reduction in soil P over time. The field below Optimum are scheduled to receive approximately 30% more nutrients, greater than crop removal, per year to moderately, but consistently build soil nutrition in the fields.

Precise plans for each field are in the table below, but in general, application rates resemble:

Corn

(100%) Crop Removal + Fertilizer Recs = 8,000 ga/ac spring & fall
(100%) Crop Removal = 7,500 gal/ac spring & fall
(75%) Crop Removal = 6,500 gal/ac spring & fall

Grass

(100%) Crop Removal + Fertilizer Recs = 5,000 gal/ac spring & fall
(100%) Crop Removal = 6,300 gal/ac spring -or- fall
(75%) Crop Removal = 4,700 gal/ac spring -or- fall

For applications within 6,000-8000 gal/ac – please take care to assess soil conditions, and adjust (lower) as needed to avoid manure runoff down the field. Applications were capped at 8,000 gal as the soils can't typically handle more than the 6,000-8,000 gal/ac, depending on ground conditions (soil moisture, permeability, infiltration).

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Strauss 2 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	16.1 loads	161 tons	10.7	9	47	71
Strauss 2 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	93 lbs		994 lbs	10.7	0	0	57
Strauss 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		3,207 lbs	10.7	138	0	0
Strauss 2 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	16.1 loads	161 tons	10.7	8	47	71
Strauss 2 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	16.1 loads	161 tons	10.7	9	47	71

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Strauss 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		2,950 lbs	10.7	127	0	0
Strauss 2 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	16.1 loads	161 tons	10.7	8	47	71
Strauss 2 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	16.1 loads	161 tons	10.7	9	47	71
Strauss 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		2,833 lbs	10.7	122	0	0
Strauss 2 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	16.1 loads	161 tons	10.7	8	47	71
Strauss 4 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5 loads	50 tons	5.0	6	31	47
Strauss 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	321 lbs		1,605 lbs	5.0	148	0	0
Strauss 4 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	42 lbs		210 lbs	5.0	0	0	26
Strauss 4 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5 loads	50 tons	5.0	6	31	47
Strauss 4 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5 loads	50 tons	5.0	6	31	47
Strauss 4 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	73 lbs		365 lbs	5.0	34	0	0
Strauss 4 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5 loads	50 tons	5.0	6	31	47
Strauss 4 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5 loads	50 tons	5.0	6	31	47
Strauss 4 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	69 lbs		345 lbs	5.0	32	0	0
Strauss 4 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5 loads	50 tons	5.0	6	31	47
Strauss 6 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.7 loads	47 tons	3.1	9	47	71
Strauss 6 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		939 lbs	3.1	138	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Strauss 6 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	3 lbs		9 lbs	3.1	0	0	2
Strauss 6 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.7 loads	47 tons	3.1	8	47	71
Strauss 6 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	0.1 loads	1 tons	0.1	9	47	71
Strauss 6 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	295 lbs		923 lbs	3.1	136	0	0
Strauss 6 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.7 loads	47 tons	3.1	8	47	71
Strauss 6 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	0.1 loads	1 tons	0.1	9	47	71
Strauss 6 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	291 lbs		911 lbs	3.1	134	0	0
Strauss 6 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.8 loads	48 tons	3.2	8	47	71
Strauss 7 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.8 loads	48 tons	3.2	9	47	71
Strauss 7 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		960 lbs	3.2	138	0	0
Strauss 7 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	1 lbs		3 lbs	3.2	0	0	1
Strauss 7 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.4 loads	44 tons	2.9	8	47	71
Strauss 7 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	0.5 loads	5 tons	0.3	9	47	71
Strauss 7 (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	1 lbs		3 lbs	3.2	0	0	1

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Strauss 7 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	295 lbs		944 lbs	3.2	136	0	0
Strauss 7 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.8 loads	48 tons	3.2	8	47	71
Strauss 7 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.8 loads	48 tons	3.2	9	47	71
Strauss 7 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	271 lbs		867 lbs	3.2	125	0	0
Strauss 7 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.9 loads	49 tons	3.3	8	47	71
Strauss 12 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.9 loads	29 tons	2.9	6	31	47
Strauss 12 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	42 lbs		122 lbs	2.9	0	0	26
Strauss 12 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	321 lbs		931 lbs	2.9	148	0	0
Strauss 12 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.9 loads	29 tons	2.9	6	31	47
Strauss 12 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.9 loads	29 tons	2.9	6	31	47
Strauss 12 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	73 lbs		212 lbs	2.9	34	0	0
Strauss 12 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.9 loads	29 tons	2.9	6	31	47
Strauss 12 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.9 loads	29 tons	2.9	6	31	47
Strauss 12 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	69 lbs		200 lbs	2.9	32	0	0
Strauss 12 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.9 loads	29 tons	2.9	6	31	47
Strauss 13 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	12.6 loads	126 tons	8.4	9	47	71
Strauss 13 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		2,520 lbs	8.4	138	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Strauss 13 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	12.6 loads	126 tons	8.4	8	47	71
Strauss 13 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	12.6 loads	126 tons	8.4	9	47	71
Strauss 13 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		2,318 lbs	8.4	127	0	0
Strauss 13 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	12.6 loads	126 tons	8.4	8	47	71
Strauss 13 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	12.6 loads	126 tons	8.4	9	47	71
Strauss 13 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		2,226 lbs	8.4	122	0	0
Strauss 13 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	12.6 loads	126 tons	8.4	8	47	71
Strauss 5 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.6 loads	56 tons	3.7	9	47	71
Strauss 5 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	93 lbs		344 lbs	3.7	0	0	57
Strauss 5 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		1,110 lbs	3.7	138	0	0
Strauss 5 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.6 loads	56 tons	3.7	8	47	71
Strauss 5 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.6 loads	56 tons	3.7	9	47	71
Strauss 5 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		1,021 lbs	3.7	127	0	0
Strauss 5 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.6 loads	56 tons	3.7	8	47	71

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Strauss 5 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.6 loads	56 tons	3.7	9	47	71
Strauss 5 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		981 lbs	3.7	122	0	0
Strauss 5 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.8 loads	58 tons	3.9	8	47	71
Bender/V.Hill3A (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	36,205 gal	5.6	42	46	117
Bender/V.Hill3A (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	16 lbs		89 lbs	5.6	0	0	10
Bender/V.Hill3A (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		1,270 lbs	5.6	105	0	0
Bender/V.Hill3A (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	36,205 gal	5.6	38	46	117
Bender/V.Hill3A (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	36,010 gal	5.5	42	46	117
Bender/V.Hill3A (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	117 lbs		652 lbs	5.6	54	0	0
Bender/V.Hill3A (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	36,205 gal	5.6	38	46	117
Bender/V.Hill3A (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	36,010 gal	5.5	42	46	117
Bender/V.Hill3A (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	76 lbs		423 lbs	5.6	35	0	0
Bender/V.Hill3A (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	36,205 gal	5.6	38	46	117
Bender/V.Hill3B (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	32,750 gal	6.6	32	35	90
Bender/V.Hill3B (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	208 lbs		1,362 lbs	6.6	96	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Bender/V.Hill3B (grass)	Aug 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	32,750 gal	6.6	32	35	90
Bender/V.Hill3B (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	32,750 gal	6.6	32	35	90
Bender/V.Hill3B (grass)	Aug 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	32,750 gal	6.6	32	35	90
Bender/V.Hill3B (grass)	May 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	32,750 gal	6.6	32	35	90
Bender/V.Hill3B (grass)	Aug 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	32,750 gal	6.6	32	35	90
Bender/V.Hill 4 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	57,000 gal	11.4	32	35	90
Bender/V.Hill 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	208 lbs		2,371 lbs	11.4	96	0	0
Bender/V.Hill 4 (grass)	Aug 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	57,000 gal	11.4	32	35	90
Bender/V.Hill 4 (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	57,000 gal	11.4	32	35	90
Bender/V.Hill 4 (grass)	Aug 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	57,000 gal	11.4	32	35	90
Bender/V.Hill 4 (grass)	May 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	57,000 gal	11.4	32	35	90
Bender/V.Hill 4 (grass)	Aug 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	57,000 gal	11.4	32	35	90
Bender/V.Hill 5 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	33,865 gal	5.2	42	46	117
Bender/V.Hill 5 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		1,188 lbs	5.2	105	0	0
Bender/V.Hill 5 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	18 lbs		94 lbs	5.2	0	0	11
Bender/V.Hill 5 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	33,865 gal	5.2	38	46	117
Bender/V.Hill 5 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	33,865 gal	5.2	42	46	117
Bender/V.Hill 5 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	117 lbs		610 lbs	5.2	54	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Bender/V.Hill 5 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	33,865 gal	5.2	38	46	117
Bender/V.Hill 5 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	33,865 gal	5.2	42	46	117
Bender/V.Hill 5 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	76 lbs		396 lbs	5.2	35	0	0
Bender/V.Hill 5 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	33,865 gal	5.2	38	46	117
Bender/V.Hill 6 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	91,000 gal	14.0	42	46	117
Bender/V.Hill 6 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		3,192 lbs	14.0	105	0	0
Bender/V.Hill 6 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	18 lbs		252 lbs	14.0	0	0	11
Bender/V.Hill 6 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	91,000 gal	14.0	38	46	117
Bender/V.Hill 6 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	91,000 gal	14.0	42	46	117
Bender/V.Hill 6 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	117 lbs		1,638 lbs	14.0	54	0	0
Bender/V.Hill 6 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	91,000 gal	14.0	38	46	117
Bender/V.Hill 6 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	91,000 gal	14.0	42	46	117
Bender/V.Hill 6 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	76 lbs		1,064 lbs	14.0	35	0	0
Bender/V.Hill 6 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	91,000 gal	14.0	38	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Flegerts 1 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.8 loads	58 tons	3.9	9	47	71
Flegerts 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		1,149 lbs	3.8	138	0	0
Flegerts 1 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.8 loads	58 tons	3.9	8	47	71
Flegerts 1 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.7 loads	57 tons	3.8	9	47	71
Flegerts 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		1,057 lbs	3.8	127	0	0
Flegerts 1 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.8 loads	58 tons	3.9	8	47	71
Flegerts 1 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.7 loads	57 tons	3.8	9	47	71
Flegerts 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		1,015 lbs	3.8	122	0	0
Flegerts 1 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	5.8 loads	58 tons	3.9	8	47	71
Flegerts 2 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13 loads	130 tons	8.7	9	47	71
Flegerts 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		2,580 lbs	8.6	138	0	0
Flegerts 2 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13 loads	130 tons	8.7	8	47	71
Flegerts 2 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	12.8 loads	128 tons	8.5	9	47	71
Flegerts 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		2,374 lbs	8.6	127	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Flegerts 2 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13 loads	130 tons	8.7	8	47	71
Flegerts 2 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	12.8 loads	128 tons	8.5	9	47	71
Flegerts 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		2,279 lbs	8.6	122	0	0
Flegerts 2 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13 loads	130 tons	8.7	8	47	71
Flegerts 3 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	1.1 loads	11 tons	0.7	9	47	71
Flegerts 3 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	302 lbs		214 lbs	0.7	139	0	0
Flegerts 3 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	1.1 loads	11 tons	0.7	8	47	71
Flegerts 3 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	0.1 loads	1 tons	0.1	9	47	71
Flegerts 3 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	291 lbs		207 lbs	0.7	134	0	0
Flegerts 3 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	1.5 loads	15 tons	1.0	8	47	71
Flegerts 3 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	0.1 loads	1 tons	0.1	9	47	71
Flegerts 3 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	280 lbs		199 lbs	0.7	129	0	0
Flegerts 3 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	1.1 loads	11 tons	0.7	8	47	71
Flegerts 4 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	10.5 loads	105 tons	7.0	9	47	71

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Flegerts 4 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		2,100 lbs	7.0	138	0	0
Flegerts 4 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	10.5 loads	105 tons	7.0	8	47	71
Flegerts 4 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	10.5 loads	105 tons	7.0	9	47	71
Flegerts 4 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		1,932 lbs	7.0	127	0	0
Flegerts 4 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	10.9 loads	109 tons	7.3	8	47	71
Flegerts 4 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	10.5 loads	105 tons	7.0	9	47	71
Flegerts 4 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		1,855 lbs	7.0	122	0	0
Flegerts 4 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	10.5 loads	105 tons	7.0	8	47	71
Flegerts 5 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	7.4 loads	74 tons	4.9	9	47	71
Flegerts 5 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		1,470 lbs	4.9	138	0	0
Flegerts 5 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	7.4 loads	74 tons	4.9	8	47	71
Flegerts 5 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	7.4 loads	74 tons	4.9	9	47	71
Flegerts 5 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		1,352 lbs	4.9	127	0	0
Flegerts 5 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	7.5 loads	75 tons	5.0	8	47	71

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Flegerts 5 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	7.4 loads	74 tons	4.9	9	47	71
Flegerts 5 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		1,299 lbs	4.9	122	0	0
Flegerts 5 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	7.5 loads	75 tons	5.0	8	47	71
Flegerts 6 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.5 loads	45 tons	3.0	9	47	71
Flegerts 6 (corn)	May 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	24,000 gal	3.0		4	4
Flegerts 6 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		900 lbs	3.0	138	0	0
Flegerts 6 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.5 loads	45 tons	3.0	8	47	71
Flegerts 6 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.5 loads	45 tons	3.0	9	47	71
Flegerts 6 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	282 lbs		846 lbs	3.0	130	0	0
Flegerts 6 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.6 loads	46 tons	3.1	8	47	71
Flegerts 6 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.5 loads	45 tons	3.0	9	47	71
Flegerts 6 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	269 lbs		807 lbs	3.0	124	0	0
Flegerts 6 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	4.6 loads	46 tons	3.1	8	47	71
Home Farm 1 (corn)	Apr 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	425,760 gal	53.2		4	4

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Home Farm 1 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	91 lbs		4,843 lbs	53.2	0	0	56
Home Farm 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		20,224 lbs	53.2	175	0	0
Home Farm 1 (corn)	Oct 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	425,760 gal	53.2		4	4
Home Farm 1 (corn)	Apr 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	425,760 gal	53.2		4	4
Home Farm 1 (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	85 lbs		4,524 lbs	53.2	0	0	52
Home Farm 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		20,224 lbs	53.2	175	0	0
Home Farm 1 (corn)	Oct 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	428,635 gal	53.6		4	4
Home Farm 1 (corn)	Apr 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	425,760 gal	53.2		4	4
Home Farm 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		20,224 lbs	53.2	175	0	0
Home Farm 1 (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	85 lbs		4,524 lbs	53.2	0	0	52
Home Farm 1 (corn)	Oct 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	425,760 gal	53.2		4	4
Home Farm 2 (corn)	Apr 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	158,480 gal	19.8		4	4
Home Farm 2 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	91 lbs		1,803 lbs	19.8	0	0	56
Home Farm 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		7,528 lbs	19.8	175	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Home Farm 2 (corn)	Oct 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	158,480 gal	19.8		4	4
Home Farm 2 (corn)	Apr 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	158,480 gal	19.8		4	4
Home Farm 2 (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	85 lbs		1,684 lbs	19.8	0	0	52
Home Farm 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		7,528 lbs	19.8	175	0	0
Home Farm 2 (corn)	Oct 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	162,598 gal	20.3		4	4
Home Farm 2 (corn)	Apr 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	158,480 gal	19.8		4	4
Home Farm 2 (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	85 lbs		1,684 lbs	19.8	0	0	52
Home Farm 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		7,528 lbs	19.8	175	0	0
Home Farm 2 (corn)	Oct 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	158,480 gal	19.8		4	4
Home Farm 4 (corn)	Apr 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	64,800 gal	8.1		4	4
Home Farm 4 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		3,078 lbs	8.1	175	0	0
Home Farm 4 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	91 lbs		737 lbs	8.1	0	0	56
Home Farm 4 (corn)	Oct 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	64,800 gal	8.1		4	4
Home Farm 4 (corn)	Apr 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	64,800 gal	8.1		4	4

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Home Farm 4 (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	85 lbs		689 lbs	8.1	0	0	52
Home Farm 4 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		3,078 lbs	8.1	175	0	0
Home Farm 4 (corn)	Oct 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	66,925 gal	8.4		4	4
Home Farm 4 (corn)	Apr 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	64,800 gal	8.1		4	4
Home Farm 4 (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	85 lbs		689 lbs	8.1	0	0	52
Home Farm 4 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		3,078 lbs	8.1	175	0	0
Home Farm 4 (corn)	Oct 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	64,800 gal	8.1		4	4
Home Farm 5 (grass)	Apr 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	62,240 gal	7.8		4	4
Home Farm 5 (grass)	May 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	62,080 gal	7.8		4	4
Home Farm 5 (grass)	Jun 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	62,080 gal	7.8		4	4
Home Farm 5 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	347 lbs		2,700 lbs	7.8	160	0	0
Home Farm 5 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	95 lbs		739 lbs	7.8	0	44	0
Home Farm 5 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	203 lbs		1,579 lbs	7.8	0	0	124
Home Farm 5 (grass)	Aug 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	61,920 gal	7.7		4	4
Home Farm 5 (grass)	Oct 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	62,240 gal	7.8		4	4
Home Farm 5 (grass)	Apr 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	62,080 gal	7.8		4	4
Home Farm 5 (grass)	May 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	61,920 gal	7.7		4	4
Home Farm 5 (grass)	Jun 2022	Grass	0-46-0	Surface broadcast	Supp. P	21 lbs		163 lbs	7.8	0	10	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Home Farm 5 (grass)	Jun 2022	Grass	0-0-61	Surface broadcast	Supp. K	32 lbs		249 lbs	7.8	0	0	20
Home Farm 5 (grass)	Jun 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	61,920 gal	7.7		4	4
Home Farm 5 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	130 lbs		1,011 lbs	7.8	60	0	0
Home Farm 5 (grass)	Aug 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	61,920 gal	7.7		4	4
Home Farm 5 (grass)	Oct 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	69,352 gal	8.7		4	4
Home Farm 5 (grass)	Apr 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	62,080 gal	7.8		4	4
Home Farm 5 (grass)	May 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	61,920 gal	7.7		4	4
Home Farm 5 (grass)	Jun 2023	Grass	0-46-0	Surface broadcast	Supp. P	21 lbs		163 lbs	7.8	0	10	0
Home Farm 5 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	130 lbs		1,011 lbs	7.8	60	0	0
Home Farm 5 (grass)	Jun 2023	Grass	0-0-61	Surface broadcast	Supp. K	32 lbs		249 lbs	7.8	0	0	20
Home Farm 5 (grass)	Jun 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	61,920 gal	7.7		4	4
Home Farm 5 (grass)	Aug 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	61,920 gal	7.7		4	4
Home Farm 5 (grass)	Oct 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	62,240 gal	7.8		4	4
Home Farm 6 (grass)	Apr 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	Jun 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	144 lbs		392 lbs	2.7	0	0	88
Home Farm 6 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	347 lbs		944 lbs	2.7	160	0	0
Home Farm 6 (grass)	Aug 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	Oct 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	Apr 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	May 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	320 gal			4	4

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Home Farm 6 (grass)	Jun 2022	Grass	0-0-61	Surface broadcast	Supp. K	23 lbs		63 lbs	2.7	0	0	14
Home Farm 6 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	108 lbs		294 lbs	2.7	50	0	0
Home Farm 6 (grass)	Jun 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	Aug 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	Oct 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	23,569 gal	2.9		4	4
Home Farm 6 (grass)	Apr 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	May 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	Jun 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	Jun 2023	Grass	0-0-61	Surface broadcast	Supp. K	14 lbs		38 lbs	2.7	0	0	9
Home Farm 6 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	108 lbs		294 lbs	2.7	50	0	0
Home Farm 6 (grass)	Aug 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Home Farm 6 (grass)	Oct 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	21,760 gal	2.7		4	4
Scanlon big lot (corn)	Apr 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	155,680 gal	19.5	51	56	144
Scanlon big lot (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	269 lbs		5,235 lbs	19.5	124	0	0
Scanlon big lot (corn)	Oct 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	155,680 gal	19.5	47	56	144
Scanlon big lot (corn)	Apr 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	155,360 gal	19.4	51	56	144
Scanlon big lot (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	132 lbs		2,569 lbs	19.5	61	0	0
Scanlon big lot (corn)	Oct 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	155,680 gal	19.5	47	56	144

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Scanlon big lot (corn)	Apr 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	155,360 gal	19.4	51	56	144
Scanlon big lot (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	82 lbs		1,596 lbs	19.5	38	0	0
Scanlon big lot (corn)	Oct 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	155,680 gal	19.5	47	56	144
Scanlon middle (corn)	Apr 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	20,800 gal	3.2	42	46	117
Scanlon middle (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		925 lbs	3.2	133	0	0
Scanlon middle (corn)	Oct 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	20,800 gal	3.2	38	46	117
Scanlon middle (corn)	Apr 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	20,800 gal	3.2	42	46	117
Scanlon middle (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		570 lbs	3.2	82	0	0
Scanlon middle (corn)	Oct 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	20,800 gal	3.2	38	46	117
Scanlon middle (corn)	Apr 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	20,800 gal	3.2	42	46	117
Scanlon middle (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	136 lbs		435 lbs	3.2	63	0	0
Scanlon middle (corn)	Oct 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	20,800 gal	3.2	38	46	117
Scanlon back (corn)	Apr 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	52,000 gal	6.5	51	56	144
Scanlon back (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	269 lbs		1,749 lbs	6.5	124	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Scanlon back (corn)	Oct 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	52,000 gal	6.5	47	56	144
Scanlon back (corn)	Apr 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	52,000 gal	6.5	51	56	144
Scanlon back (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	132 lbs		858 lbs	6.5	61	0	0
Scanlon back (corn)	Oct 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	52,000 gal	6.5	47	56	144
Scanlon back (corn)	Apr 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	52,000 gal	6.5	51	56	144
Scanlon back (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	82 lbs		533 lbs	6.5	38	0	0
Scanlon back (corn)	Oct 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	52,000 gal	6.5	47	56	144
Scanlon front (corn)	Apr 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	26,000 gal	4.0	42	46	117
Scanlon front (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		1,156 lbs	4.0	133	0	0
Scanlon front (corn)	Oct 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	26,000 gal	4.0	38	46	117
Scanlon front (corn)	Apr 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	26,000 gal	4.0	42	46	117
Scanlon front (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		712 lbs	4.0	82	0	0
Scanlon front (corn)	Oct 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	26,000 gal	4.0	38	46	117
Scanlon front (corn)	Apr 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	26,000 gal	4.0	42	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Scanlon front (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	136 lbs		544 lbs	4.0	63	0	0
Scanlon front (corn)	Oct 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	26,000 gal	4.0	38	46	117
Left of Scanlon (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	23,400 gal	5.2	29	36	75
Left of Scanlon (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	8 lbs		42 lbs	5.2	0	0	5
Left of Scanlon (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	84 lbs		437 lbs	5.2	0	39	0
Left of Scanlon (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	317 lbs		1,648 lbs	5.2	146	0	0
Left of Scanlon (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	23,400 gal	5.2	21	36	75
Left of Scanlon (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	23,400 gal	5.2	29	36	75
Left of Scanlon (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	2 lbs		10 lbs	5.2	1	0	0
Left of Scanlon (grass)	Oct 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	23,400 gal	5.2	21	36	75
Left of Scanlon (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	23,400 gal	5.2	29	36	75
Left of Scanlon (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	23,400 gal	5.2	21	36	75
EvergreenFarm 1 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	13 loads	130 tons	13.0	6	31	47
EvergreenFarm 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	147 lbs		1,911 lbs	13.0	68	0	0
EvergreenFarm 1 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	13 loads	130 tons	13.0	6	31	47
EvergreenFarm 1 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	13 loads	130 tons	13.0	6	31	47
EvergreenFarm 1 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	139 lbs		1,807 lbs	13.0	64	0	0
EvergreenFarm 1 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	13 loads	130 tons	13.0	6	31	47
EvergreenFarm 1 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	13 loads	130 tons	13.0	6	31	47
EvergreenFarm 1 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	134 lbs		1,742 lbs	13.0	62	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
EvergreenFarm 1 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	13 loads	130 tons	13.0	6	31	47
EvergreenFarm 2 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	22,100 gal	3.4	42	46	117
EvergreenFarm 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		983 lbs	3.4	133	0	0
EvergreenFarm 2 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	5 lbs		17 lbs	3.4	0	0	3
EvergreenFarm 2 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	22,100 gal	3.4	38	46	117
EvergreenFarm 2 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	22,100 gal	3.4	42	46	117
EvergreenFarm 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		605 lbs	3.4	82	0	0
EvergreenFarm 2 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	22,100 gal	3.4	38	46	117
EvergreenFarm 2 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	22,100 gal	3.4	42	46	117
EvergreenFarm 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	136 lbs		462 lbs	3.4	63	0	0
EvergreenFarm 2 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	22,100 gal	3.4	38	46	117
EvergreenFarm 3 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	59,150 gal	9.1	42	46	117
EvergreenFarm 3 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	5 lbs		46 lbs	9.1	0	0	3
EvergreenFarm 3 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		2,630 lbs	9.1	133	0	0
EvergreenFarm 3 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	59,150 gal	9.1	38	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
EvergreenFarm 3 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	59,150 gal	9.1	42	46	117
EvergreenFarm 3 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		1,620 lbs	9.1	82	0	0
EvergreenFarm 3 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	59,150 gal	9.1	38	46	117
EvergreenFarm 3 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	59,150 gal	9.1	42	46	117
EvergreenFarm 3 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	136 lbs		1,238 lbs	9.1	63	0	0
EvergreenFarm 3 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	59,150 gal	9.1	38	46	117
EvergreenFarm 4 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	16,250 gal	2.5	42	46	117
EvergreenFarm 4 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	5 lbs		13 lbs	2.5	0	0	3
EvergreenFarm 4 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		723 lbs	2.5	133	0	0
EvergreenFarm 4 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	16,250 gal	2.5	38	46	117
EvergreenFarm 4 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	16,250 gal	2.5	42	46	117
EvergreenFarm 4 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		445 lbs	2.5	82	0	0
EvergreenFarm 4 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	16,250 gal	2.5	38	46	117
EvergreenFarm 4 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	16,250 gal	2.5	42	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
EvergreenFarm 4 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	136 lbs		340 lbs	2.5	63	0	0
EvergreenFarm 4 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	16,250 gal	2.5	38	46	117
EvergreenFarm 5 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,890 gal	3.1	42	46	117
EvergreenFarm 5 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	1 lbs		3 lbs	3.1	0	0	1
EvergreenFarm 5 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		884 lbs	3.1	133	0	0
EvergreenFarm 5 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,890 gal	3.1	38	46	117
EvergreenFarm 5 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,630 gal	3.0	42	46	117
EvergreenFarm 5 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		545 lbs	3.1	82	0	0
EvergreenFarm 5 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,890 gal	3.1	38	46	117
EvergreenFarm 5 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,630 gal	3.0	42	46	117
EvergreenFarm 5 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	136 lbs		416 lbs	3.1	63	0	0
EvergreenFarm 5 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,890 gal	3.1	38	46	117
EvergreenFarm 7 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3 loads	30 tons	3.0	6	31	47
EvergreenFarm 7 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	147 lbs		441 lbs	3.0	68	0	0
EvergreenFarm 7 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3 loads	30 tons	3.0	6	31	47
EvergreenFarm 7 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3 loads	30 tons	3.0	6	31	47

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
EvergreenFarm 7 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	139 lbs		417 lbs	3.0	64	0	0
EvergreenFarm 7 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3 loads	30 tons	3.0	6	31	47
EvergreenFarm 7 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3 loads	30 tons	3.0	6	31	47
EvergreenFarm 7 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	134 lbs		402 lbs	3.0	62	0	0
EvergreenFarm 7 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3 loads	30 tons	3.0	6	31	47
Young Stock 1 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	7.6 loads	76 tons	3.8	12	62	94
Young Stock 1 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	41 lbs		154 lbs	3.8	0	0	25
Young Stock 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	321 lbs		1,207 lbs	3.8	148	0	0
Young Stock 1 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	2.2 loads	22 tons	1.1	10	62	94
Young Stock 1 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	7.5 loads	75 tons	3.8	12	62	94
Young Stock 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	306 lbs		1,151 lbs	3.8	141	0	0
Young Stock 1 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	2.4 loads	24 tons	1.2	10	62	94
Young Stock 1 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	7.5 loads	75 tons	3.8	12	62	94
Young Stock 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		1,128 lbs	3.8	138	0	0
Young Stock 1 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	7.6 loads	76 tons	3.8	10	62	94
Young Stock 5 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	14 loads	140 tons	7.0	12	62	94

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Young Stock 5 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	321 lbs		2,247 lbs	7.0	148	0	0
Young Stock 5 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	42 lbs		294 lbs	7.0	0	0	26
Young Stock 5 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	14 loads	140 tons	7.0	10	62	94
Young Stock 5 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	14 loads	140 tons	7.0	12	62	94
Young Stock 5 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	291 lbs		2,037 lbs	7.0	134	0	0
Young Stock 5 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	14.3 loads	143 tons	7.2	10	62	94
Young Stock 5 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	14 loads	140 tons	7.0	12	62	94
Young Stock 5 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	278 lbs		1,946 lbs	7.0	128	0	0
Young Stock 5 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	14 loads	140 tons	7.0	10	62	94
Young Stock 6 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	4.8 loads	48 tons	2.4	12	62	94
Young Stock 6 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	41 lbs		98 lbs	2.4	0	0	25
Young Stock 6 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	321 lbs		764 lbs	2.4	148	0	0
Young Stock 6 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	4.8 loads	48 tons	2.4	10	62	94
Young Stock 6 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	4.8 loads	48 tons	2.4	12	62	94

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Young Stock 6 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	291 lbs		693 lbs	2.4	134	0	0
Young Stock 6 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	4.8 loads	48 tons	2.4	10	62	94
Young Stock 6 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	4.8 loads	48 tons	2.4	12	62	94
Young Stock 6 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	278 lbs		662 lbs	2.4	128	0	0
Young Stock 6 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	4.8 loads	48 tons	2.4	10	62	94
Young Stock 7 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	29	36	75
Young Stock 7 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	182 lbs		546 lbs	3.0	0	84	0
Young Stock 7 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	284 lbs		852 lbs	3.0	131	0	0
Young Stock 7 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	73 lbs		219 lbs	3.0	0	0	45
Young Stock 7 (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	21	36	75
Young Stock 7 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	29	36	75
Young Stock 7 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	219 lbs		657 lbs	3.0	101	0	0
Young Stock 7 (grass)	Jun 2022	Grass	0-46-0	Surface broadcast	Supp. P	104 lbs		312 lbs	3.0	0	48	0
Young Stock 7 (grass)	Jun 2022	Grass	0-0-0		Custom	gal		0 gal	3.0			
Young Stock 7 (grass)	Oct 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	21	36	75
Young Stock 7 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	29	36	75
Young Stock 7 (grass)	Jun 2023	Grass	0-46-0	Surface broadcast	Supp. P	104 lbs		312 lbs	3.0	0	48	0
Young Stock 7 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	191 lbs		573 lbs	3.0	88	0	0
Young Stock 7 (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	21	36	75

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Young Stock 9 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	30,600 gal	6.8	29	36	75
Young Stock 9 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	73 lbs		496 lbs	6.8	0	0	45
Young Stock 9 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	284 lbs		1,931 lbs	6.8	131	0	0
Young Stock 9 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	182 lbs		1,238 lbs	6.8	0	84	0
Young Stock 9 (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	30,600 gal	6.8	21	36	75
Young Stock 9 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	30,600 gal	6.8	29	36	75
Young Stock 9 (grass)	Jun 2022	Grass	0-46-0	Surface broadcast	Supp. P	104 lbs		707 lbs	6.8	0	48	0
Young Stock 9 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	219 lbs		1,489 lbs	6.8	101	0	0
Young Stock 9 (grass)	Oct 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	30,600 gal	6.8	21	36	75
Young Stock 9 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	30,600 gal	6.8	29	36	75
Young Stock 9 (grass)	Jun 2023	Grass	0-46-0	Surface broadcast	Supp. P	104 lbs		707 lbs	6.8	0	48	0
Young Stock 9 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	191 lbs		1,299 lbs	6.8	88	0	0
Young Stock 9 (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	30,600 gal	6.8	21	36	75
Flora (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	20 loads	200 tons	10.0	12	62	94
Flora (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	354 lbs		3,540 lbs	10.0	163	0	0
Flora (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	20 loads	200 tons	10.0	10	62	94
Flora (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	20 loads	200 tons	10.0	12	62	94
Flora (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	323 lbs		3,230 lbs	10.0	149	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Flora (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	20.3 loads	203 tons	10.1	10	62	94
Flora (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	20 loads	200 tons	10.0	12	62	94
Flora (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	310 lbs		3,100 lbs	10.0	143	0	0
Flora (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	20 tons	14.6 loads	146 tons	7.3	10	62	94
Keys (grass)	Apr 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Jun 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	173 lbs		484 lbs	2.8	80	0	0
Keys (grass)	Jun 2021	Grass	0-61-0	Surface broadcast	Supp. P	36 lbs		101 lbs	2.8	0	22	0
Keys (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	91 lbs		255 lbs	2.8	0	0	56
Keys (grass)	Aug 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Oct 2021	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Apr 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	173 lbs		484 lbs	2.8	80	0	0
Keys (grass)	Jun 2022	Grass	0-46-0	Surface broadcast	Supp. P	39 lbs		109 lbs	2.8	0	18	0
Keys (grass)	Jun 2022	Grass	0-0-61	Surface broadcast	Supp. K	85 lbs		238 lbs	2.8	0	0	52
Keys (grass)	Jun 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Aug 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Oct 2022	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	26,952 gal	3.4		4	4
Keys (grass)	Apr 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	173 lbs		484 lbs	2.8	80	0	0
Keys (grass)	Jun 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Jun 2023	Grass	0-46-0	Surface broadcast	Supp. P	36 lbs		101 lbs	2.8	0	17	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Keys (grass)	Jun 2023	Grass	0-0-61	Surface broadcast	Supp. K	83 lbs		232 lbs	2.8	0	0	51
Keys (grass)	Aug 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Keys (grass)	Oct 2023	Grass	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,400 gal	2.8		4	4
Krause 1 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	55,500 gal	11.1	32	35	90
Krause 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	208 lbs		2,309 lbs	11.1	96	0	0
Krause 1 (grass)	Aug 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	55,500 gal	11.1	32	35	90
Krause 1 (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	55,500 gal	11.1	32	35	90
Krause 1 (grass)	Aug 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	55,500 gal	11.1	32	35	90
Krause 1 (grass)	May 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	55,500 gal	11.1	32	35	90
Krause 1 (grass)	Aug 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	55,500 gal	11.1	32	35	90
Krause 3 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	177,400 gal	35.5	32	35	90
Krause 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	208 lbs		7,380 lbs	35.5	96	0	0
Krause 3 (grass)	Aug 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	177,300 gal	35.5	32	35	90
Krause 3 (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	177,400 gal	35.5	32	35	90
Krause 3 (grass)	Aug 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	177,300 gal	35.5	32	35	90
Krause 3 (grass)	May 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	177,400 gal	35.5	32	35	90
Krause 3 (grass)	Aug 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	177,300 gal	35.5	32	35	90
Krause 5 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	122,005 gal	18.8	42	46	117
Krause 5 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		5,425 lbs	18.8	133	0	0
Krause 5 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	122,005 gal	18.8	38	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Krause 5 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	121,810 gal	18.7	42	46	117
Krause 5 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		3,341 lbs	18.8	82	0	0
Krause 5 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	122,005 gal	18.8	38	46	117
Krause 5 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	121,810 gal	18.7	42	46	117
Krause 5 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	136 lbs		2,553 lbs	18.8	63	0	0
Krause 5 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	122,005 gal	18.8	38	46	117
Krause 6 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	44,250 gal	8.9	32	35	90
Krause 6 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	208 lbs		1,841 lbs	8.9	96	0	0
Krause 6 (grass)	Aug 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	44,000 gal	8.8	32	35	90
Krause 6 (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	44,250 gal	8.9	32	35	90
Krause 6 (grass)	Aug 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	44,000 gal	8.8	32	35	90
Krause 6 (grass)	May 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	44,250 gal	8.9	32	35	90
Krause 6 (grass)	Aug 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	44,000 gal	8.8	32	35	90
Krause 7 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	61,360 gal	9.4	42	46	117
Krause 7 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		2,728 lbs	9.4	133	0	0
Krause 7 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	61,360 gal	9.4	38	46	117
Krause 7 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	61,360 gal	9.4	42	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Krause 7 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		1,680 lbs	9.4	82	0	0
Krause 7 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	61,360 gal	9.4	38	46	117
Krause 7 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	260 gal		42	46	117
Krause 7 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		2,152 lbs	9.4	105	0	0
Krause 7 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	61,360 gal	9.4	38	46	117
Krause 8 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	175,175 gal	27.0	42	46	117
Krause 8 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		7,789 lbs	27.0	133	0	0
Krause 8 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	175,175 gal	27.0	38	46	117
Krause 8 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	174,850 gal	26.9	42	46	117
Krause 8 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		4,797 lbs	27.0	82	0	0
Krause 8 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	175,175 gal	27.0	38	46	117
Krause 8 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	174,850 gal	26.9	42	46	117
Krause 8 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	136 lbs		3,665 lbs	27.0	63	0	0
Krause 8 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	175,175 gal	27.0	38	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Pultz 1 (corn)	Apr 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	54,470 gal	8.4	42	46	117
Pultz 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		2,422 lbs	8.4	133	0	0
Pultz 1 (corn)	Oct 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	54,470 gal	8.4	38	46	117
Pultz 1 (corn)	Apr 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	54,340 gal	8.4	42	46	117
Pultz 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		1,492 lbs	8.4	82	0	0
Pultz 1 (corn)	Oct 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	54,470 gal	8.4	38	46	117
Pultz 1 (corn)	Apr 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	54,340 gal	8.4	42	46	117
Pultz 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	136 lbs		1,140 lbs	8.4	63	0	0
Pultz 1 (corn)	Oct 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	54,470 gal	8.4	38	46	117
Pultz 2 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	152 lbs		2,379 lbs	15.6	0	0	93
Pultz 2 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	334 lbs		5,227 lbs	15.6	154	0	0
Pultz 2 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	15.7 loads	157 tons	15.7	6	31	47
Pultz 2 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	113 lbs		1,768 lbs	15.6	52	0	0
Pultz 2 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	15.7 loads	157 tons	15.7	6	31	47
Pultz 2 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	110 lbs		1,721 lbs	15.6	51	0	0
Pultz 2 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	15.7 loads	157 tons	15.7	6	31	47
ScanlonPumpkLot (corn)	Apr 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,800 gal	2.8	51	56	144

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
ScanlonPumpkLot (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		598 lbs	2.8	97	0	0
ScanlonPumpkLot (corn)	Oct 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,800 gal	2.8	47	56	144
ScanlonPumpkLot (corn)	Apr 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,800 gal	2.8	51	56	144
ScanlonPumpkLot (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	76 lbs		217 lbs	2.8	35	0	0
ScanlonPumpkLot (corn)	Oct 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,800 gal	2.8	47	56	144
ScanlonPumpkLot (corn)	Apr 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,800 gal	2.8	51	56	144
ScanlonPumpkLot (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	28 lbs		80 lbs	2.8	13	0	0
ScanlonPumpkLot (corn)	Oct 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	22,800 gal	2.8	47	56	144
PigeonSwamp1 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	88,000 gal	11.0	51	56	144
PigeonSwamp1 (corn)	Jun 2021	Corn for Silage, convent	0-46-0	Surface broadcast	Supp. P	10 lbs		110 lbs	11.0	0	5	0
PigeonSwamp1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	208 lbs		2,288 lbs	11.0	96	0	0
PigeonSwamp1 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	88,000 gal	11.0	47	56	144
PigeonSwamp1 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	88,000 gal	11.0	51	56	144
PigeonSwamp1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	71 lbs		781 lbs	11.0	33	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
PigeonSwamp1 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	88,000 gal	11.0	47	56	144
PigeonSwamp1 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	88,000 gal	11.0	51	56	144
PigeonSwamp1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	21 lbs		231 lbs	11.0	10	0	0
PigeonSwamp1 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	88,000 gal	11.0	47	56	144
BoggLnAbovePond (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	9.3 loads	93 tons	9.3	6	31	47
BoggLnAbovePond (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	75 lbs		698 lbs	9.3	0	0	46
BoggLnAbovePond (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	321 lbs		2,985 lbs	9.3	148	0	0
BoggLnAbovePond (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	9.3 loads	93 tons	9.3	6	31	47
BoggLnAbovePond (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	9.3 loads	93 tons	9.3	6	31	47
BoggLnAbovePond (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	95 lbs		884 lbs	9.3	44	0	0
BoggLnAbovePond (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	9.3 loads	93 tons	9.3	6	31	47
BoggLnAbovePond (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	9.3 loads	93 tons	9.3	6	31	47
BoggLnAbovePond (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	91 lbs		846 lbs	9.3	42	0	0
BoggLnAbovePond (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	9.3 loads	93 tons	9.3	6	31	47
BoggLn Valley1 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	30.2 loads	302 tons	20.1	9	47	71
BoggLn Valley1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	360 lbs		7,225 lbs	20.1	166	0	0
BoggLn Valley1 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	80 lbs		1,606 lbs	20.1	0	0	49

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
BoggLn Valley1 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	30.2 loads	302 tons	20.1	8	47	71
BoggLn Valley1 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	30.1 loads	301 tons	20.1	9	47	71
BoggLn Valley1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	336 lbs		6,744 lbs	20.1	155	0	0
BoggLn Valley1 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	30.2 loads	302 tons	20.1	8	47	71
BoggLn Valley1 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	30.1 loads	301 tons	20.1	9	47	71
BoggLn Valley1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	326 lbs		6,543 lbs	20.1	150	0	0
BoggLn Valley1 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	30.2 loads	302 tons	20.1	8	47	71
Bogg Ln 1 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	70,650 gal	15.7	29	36	75
Bogg Ln 1 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	106 lbs		1,664 lbs	15.7	0	0	65
Bogg Ln 1 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	52 lbs		816 lbs	15.7	0	24	0
Bogg Ln 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	284 lbs		4,459 lbs	15.7	131	0	0
Bogg Ln 1 (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	70,650 gal	15.7	21	36	75
Bogg Ln 1 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	70,650 gal	15.7	29	36	75
Bogg Ln 1 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	2 lbs		31 lbs	15.7	1	0	0
Bogg Ln 1 (grass)	Oct 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	70,650 gal	15.7	21	36	75
Bogg Ln 1 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	70,650 gal	15.7	29	36	75
Bogg Ln 1 (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	70,650 gal	15.7	21	36	75
Bogg Ln 2 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	27,000 gal	6.0	29	36	75

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Bogg Ln 2 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	106 lbs		636 lbs	6.0	0	0	65
Bogg Ln 2 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	284 lbs		1,704 lbs	6.0	131	0	0
Bogg Ln 2 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	52 lbs		312 lbs	6.0	0	24	0
Bogg Ln 2 (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	27,000 gal	6.0	21	36	75
Bogg Ln 2 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	27,000 gal	6.0	29	36	75
Bogg Ln 2 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	2 lbs		12 lbs	6.0	1	0	0
Bogg Ln 2 (grass)	Oct 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	27,000 gal	6.0	21	36	75
Bogg Ln 2 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	27,000 gal	6.0	29	36	75
Bogg Ln 2 (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	27,000 gal	6.0	21	36	75
10acre Lot (corn)	Apr 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	48,000 gal	6.0	51	56	144
10acre Lot (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	208 lbs		1,248 lbs	6.0	96	0	0
10acre Lot (corn)	Oct 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	48,000 gal	6.0	47	56	144
10acre Lot (corn)	Apr 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	48,000 gal	6.0	51	56	144
10acre Lot (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	71 lbs		426 lbs	6.0	33	0	0
10acre Lot (corn)	Oct 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	48,000 gal	6.0	47	56	144
10acre Lot (corn)	Apr 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	48,000 gal	6.0	51	56	144
10acre Lot (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	21 lbs		126 lbs	6.0	10	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
10acre Lot (corn)	Oct 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	48,000 gal	6.0	47	56	144
LowBabcockHill 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	278 lbs		7,006 lbs	25.2	128	0	0
LowBabcockHill 1 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	97 lbs		2,444 lbs	25.2	0	45	0
LowBabcockHill 1 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	82 lbs		2,066 lbs	25.2	0	0	50
LowBabcockHill 1 (grass)	Aug 2021	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	126,000 gal	25.2	32	35	90
LowBabcockHill 1 (grass)	Oct 2021	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	126,000 gal	25.2	24	35	90
LowBabcockHill 1 (grass)	Aug 2022	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	126,000 gal	25.2	32	35	90
LowBabcockHill 1 (grass)	Oct 2022	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	126,000 gal	25.2	24	35	90
LowBabcockHill 1 (grass)	Aug 2023	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	126,000 gal	25.2	32	35	90
LowBabcockHill 1 (grass)	Oct 2023	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	126,000 gal	25.2	24	35	90
LowBabcockHill 2 (corn)	Apr 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	68,800 gal	8.6	51	56	144
LowBabcockHill 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	236 lbs		2,030 lbs	8.6	109	0	0
LowBabcockHill 2 (corn)	Oct 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	68,800 gal	8.6	47	56	144
LowBabcockHill 2 (corn)	Apr 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	68,800 gal	8.6	51	56	144
LowBabcockHill 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	100 lbs		860 lbs	8.6	46	0	0
LowBabcockHill 2 (corn)	Oct 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	68,800 gal	8.6	47	56	144
LowBabcockHill 2 (corn)	Apr 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	68,800 gal	8.6	51	56	144

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
LowBabcockHill 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	50 lbs		430 lbs	8.6	23	0	0
LowBabcockHill 2 (corn)	Oct 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	68,800 gal	8.6	47	56	144
LowBabcockHill 3 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	82 lbs		954 lbs	11.6	0	0	50
LowBabcockHill 3 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	97 lbs		1,128 lbs	11.6	0	45	0
LowBabcockHill 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	278 lbs		3,233 lbs	11.6	128	0	0
LowBabcockHill 3 (grass)	Aug 2021	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	58,150 gal	11.6	32	35	90
LowBabcockHill 3 (grass)	Oct 2021	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	58,150 gal	11.6	24	35	90
LowBabcockHill 3 (grass)	Aug 2022	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	58,150 gal	11.6	32	35	90
LowBabcockHill 3 (grass)	Oct 2022	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	58,150 gal	11.6	24	35	90
LowBabcockHill 3 (grass)	Aug 2023	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	58,150 gal	11.6	32	35	90
LowBabcockHill 3 (grass)	Oct 2023	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	58,150 gal	11.6	24	35	90
Kick Hill Lot (corn)	Apr 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	157,600 gal	19.7		4	4
Kick Hill Lot (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	91 lbs		1,793 lbs	19.7	0	0	56
Kick Hill Lot (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		7,486 lbs	19.7	175	0	0
Kick Hill Lot (corn)	Oct 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	157,600 gal	19.7		4	4
Kick Hill Lot (corn)	Apr 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	157,600 gal	19.7		4	4
Kick Hill Lot (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	85 lbs		1,675 lbs	19.7	0	0	52

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Kick Hill Lot (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs		7,486 lbs	19.7	175	0	0
Kick Hill Lot (corn)	Oct 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	158,000 gal	19.8		4	4
Kick Hill Lot (corn)	Apr 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	156,800 gal	19.6		4	4
Kick Hill Lot (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast/incorporate	1-yr N	380 lbs		7,486 lbs	19.7	175	0	0
Kick Hill Lot (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	85 lbs		1,675 lbs	19.7	0	0	52
Kick Hill Lot (corn)	Oct 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	157,600 gal	19.7		4	4
McCaw (corn)	Apr 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	90,400 gal	11.3		4	4
McCaw (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	319 lbs		3,605 lbs	11.3	147	0	0
McCaw (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	203 lbs		2,294 lbs	11.3	0	0	124
McCaw (corn)	Jun 2021	Corn for Silage, convent	0-46-0	Surface broadcast	Supp. P	123 lbs		1,390 lbs	11.3	0	57	0
McCaw (corn)	Oct 2021	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	90,400 gal	11.3		4	4
McCaw (corn)	Apr 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	90,400 gal	11.3		4	4
McCaw (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	319 lbs		3,605 lbs	11.3	147	0	0
McCaw (corn)	Jun 2022	Corn for Silage, convent	0-46-0	Surface broadcast	Supp. P	115 lbs		1,300 lbs	11.3	0	53	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
McCaw (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	196 lbs		2,215 lbs	11.3	0	0	120
McCaw (corn)	Oct 2022	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	97,862 gal	12.2		4	4
McCaw (corn)	Apr 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	84,800 gal	10.6		4	4
McCaw (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	196 lbs		2,215 lbs	11.3	0	0	120
McCaw (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	319 lbs		3,605 lbs	11.3	147	0	0
McCaw (corn)	Jun 2023	Corn for Silage, convent	0-46-0	Surface broadcast	Supp. P	115 lbs		1,300 lbs	11.3	0	53	0
McCaw (corn)	Oct 2023	Corn for Silage, convent	Silage Leachate Pond	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	90,400 gal	11.3		4	4
Briggs Rd (corn)	Apr 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	189,800 gal	29.2	42	46	117
Briggs Rd (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	18 lbs		526 lbs	29.2	0	0	11
Briggs Rd (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		6,658 lbs	29.2	105	0	0
Briggs Rd (corn)	Oct 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	189,800 gal	29.2	38	46	117
Briggs Rd (corn)	Apr 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	189,800 gal	29.2	42	46	117
Briggs Rd (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	117 lbs		3,416 lbs	29.2	54	0	0
Briggs Rd (corn)	Oct 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	189,800 gal	29.2	38	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Briggs Rd (corn)	Apr 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	189,800 gal	29.2	42	46	117
Briggs Rd (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	76 lbs		2,219 lbs	29.2	35	0	0
Briggs Rd (corn)	Oct 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	189,800 gal	29.2	38	46	117
Bender 1 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	4,700 gal	3.5 mph	81,310 gal	17.3	30	33	85
Bender 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	108 lbs		1,868 lbs	17.3	50	0	0
Bender 1 (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	4,700 gal	3.5 mph	81,310 gal	17.3	30	33	85
Bender 1 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	89 lbs		1,540 lbs	17.3	41	0	0
Bender 1 (grass)	May 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	4,700 gal	3.5 mph	81,310 gal	17.3	30	33	85
Bender 1 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	80 lbs		1,384 lbs	17.3	37	0	0
Bender 2 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	4,700 gal	3.5 mph	34,451 gal	7.3	30	33	85
Bender 2 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	108 lbs		792 lbs	7.3	50	0	0
Bender 2 (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	4,700 gal	3.5 mph	34,451 gal	7.3	30	33	85
Bender 2 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	89 lbs		652 lbs	7.3	41	0	0
Bender 2 (grass)	May 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	4,700 gal	3.5 mph	34,451 gal	7.3	30	33	85
Bender 2 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	80 lbs		586 lbs	7.3	37	0	0
Bender 7 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	119,600 gal	18.4	42	46	117
Bender 7 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		4,195 lbs	18.4	105	0	0
Bender 7 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	119,600 gal	18.4	38	46	117
Bender 7 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	119,600 gal	18.4	42	46	117

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Bender 7 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	117 lbs		2,153 lbs	18.4	54	0	0
Bender 7 (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	119,600 gal	18.4	38	46	117
Bender 7 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	119,600 gal	18.4	42	46	117
Bender 7 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	76 lbs		1,398 lbs	18.4	35	0	0
Bender 7 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	119,600 gal	18.4	38	46	117
Bender 9 (fallo)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	319 lbs		510 lbs	1.6	147	0	0
Bender 9 (fallo)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	319 lbs		510 lbs	1.6	147	0	0
Bender 9 (fallo)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	319 lbs		510 lbs	1.6	147	0	0
Bender 11 (fallo)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	319 lbs		1,467 lbs	4.6	147	0	0
Bender 11 (fallo)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	319 lbs		1,467 lbs	4.6	147	0	0
Bender 11 (fallo)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	319 lbs		1,467 lbs	4.6	147	0	0
Bender 19 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	4,700 gal	3.5 mph	41,313 gal	8.8	30	33	85
Bender 19 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	108 lbs		949 lbs	8.8	50	0	0
Bender 19 (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	4,700 gal	3.5 mph	41,313 gal	8.8	30	33	85
Bender 19 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	89 lbs		782 lbs	8.8	41	0	0
Bender 19 (grass)	May 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	4,700 gal	3.5 mph	41,313 gal	8.8	30	33	85

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Bender 19 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	80 lbs		703 lbs	8.8	37	0	0
Stebner 1 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	110 lbs		1,639 lbs	14.9	0	0	67
Stebner 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	260 lbs		3,874 lbs	14.9	120	0	0
Stebner 1 (grass)	Aug 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	93,870 gal	14.9	40	44	113
Stebner 1 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	15 lbs		223 lbs	14.9	7	0	0
Stebner 1 (grass)	Aug 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	93,870 gal	14.9	40	44	113
Stebner 1 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	2 lbs		30 lbs	14.9	1	0	0
Stebner 1 (grass)	Aug 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	93,870 gal	14.9	40	44	113
Stebner 2 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	53,040 gal	8.2	42	46	117
Stebner 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		2,358 lbs	8.2	133	0	0
Stebner 2 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	53,040 gal	8.2	38	46	117
Stebner 2 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	52,780 gal	8.1	42	46	117
Stebner 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		1,452 lbs	8.2	82	0	0
Stebner 2 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	44,880 gal	8.2	32	44	91
Stebner 2 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	52,780 gal	8.1	42	46	117
Stebner 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	150 lbs		1,224 lbs	8.2	69	0	0
Stebner 2 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	53,040 gal	8.2	38	46	117

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Stebner 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	260 lbs		5,730 lbs	22.0	120	0	0
Stebner 3 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	110 lbs		2,424 lbs	22.0	0	0	67
Stebner 3 (grass)	Aug 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	138,852 gal	22.0	40	44	113
Stebner 3 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	15 lbs		331 lbs	22.0	7	0	0
Stebner 3 (grass)	Aug 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	138,852 gal	22.0	40	44	113
Stebner 3 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	2 lbs		44 lbs	22.0	1	0	0
Stebner 3 (grass)	Aug 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	138,852 gal	22.0	40	44	113
Stebner 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	43 lbs		476 lbs	11.1	20	0	0
Stebner 4 (grass)	Aug 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	69,741 gal	11.1	40	44	113
Stebner 4 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	15 lbs		166 lbs	11.1	7	0	0
Stebner 4 (grass)	Aug 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	69,741 gal	11.1	40	44	113
Stebner 4 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	2 lbs		22 lbs	11.1	1	0	0
Stebner 4 (grass)	Aug 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	69,741 gal	11.1	40	44	113
Stebner 5 (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	39,325 gal	6.1	42	46	117
Stebner 5 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	289 lbs		1,748 lbs	6.1	133	0	0
Stebner 5 (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	39,325 gal	6.1	38	46	117
Stebner 5 (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	39,000 gal	6.0	42	46	117
Stebner 5 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	178 lbs		1,077 lbs	6.1	82	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Stebner 5 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	33,275 gal	6.1	32	44	91
Stebner 5 (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	39,000 gal	6.0	42	46	117
Stebner 5 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	150 lbs		908 lbs	6.1	69	0	0
Stebner 5 (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	39,325 gal	6.1	38	46	117
Xmas Tree Corn (corn)	Apr 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	193,600 gal	24.2	51	56	144
Xmas Tree Corn (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	208 lbs		5,034 lbs	24.2	96	0	0
Xmas Tree Corn (corn)	Jun 2021	Corn for Silage, convent	0-46-0	Surface broadcast	Supp. P	10 lbs		242 lbs	24.2	0	5	0
Xmas Tree Corn (corn)	Oct 2021	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	193,600 gal	24.2	47	56	144
Xmas Tree Corn (corn)	Apr 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	193,600 gal	24.2	51	56	144
Xmas Tree Corn (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	71 lbs		1,718 lbs	24.2	33	0	0
Xmas Tree Corn (corn)	Oct 2022	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	193,600 gal	24.2	47	56	144
Xmas Tree Corn (corn)	Apr 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	193,600 gal	24.2	51	56	144
Xmas Tree Corn (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	21 lbs		508 lbs	24.2	10	0	0
Xmas Tree Corn (corn)	Oct 2023	Corn for Silage, convent	Milker - Slurrystore	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	193,600 gal	24.2	47	56	144
Babcock Hill 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	104 lbs		1,266 lbs	12.2	48	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Babcock Hill 1 (grass)	Aug 2021	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	60,850 gal	12.2	32	35	90
Babcock Hill 1 (grass)	Oct 2021	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	60,850 gal	12.2	24	35	90
Babcock Hill 1 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	30 lbs		365 lbs	12.2	14	0	0
Babcock Hill 1 (grass)	Aug 2022	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	60,700 gal	12.1	32	35	90
Babcock Hill 1 (grass)	Oct 2022	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	60,850 gal	12.2	24	35	90
Babcock Hill 1 (grass)	Aug 2023	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	60,700 gal	12.1	32	35	90
Babcock Hill 1 (grass)	Oct 2023	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	60,850 gal	12.2	24	35	90
Babcock Hill 2 (corn)	Apr 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	251,095 gal	38.6	42	46	117
Babcock Hill 2 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	18 lbs		695 lbs	38.6	0	0	11
Babcock Hill 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		8,808 lbs	38.6	105	0	0
Babcock Hill 2 (corn)	Oct 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	251,095 gal	38.6	38	46	117
Babcock Hill 2 (corn)	Apr 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	250,900 gal	38.6	42	46	117
Babcock Hill 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	117 lbs		4,520 lbs	38.6	54	0	0
Babcock Hill 2 (corn)	Oct 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	251,095 gal	38.6	38	46	117
Babcock Hill 2 (corn)	Apr 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	195 gal		42	46	117
Babcock Hill 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	167 lbs		6,451 lbs	38.6	77	0	0
Babcock Hill 2 (corn)	Oct 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	251,095 gal	38.6	38	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Babcock Hill 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	104 lbs		2,186 lbs	21.0	48	0	0
Babcock Hill 3 (grass)	Aug 2021	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	105,100 gal	21.0	32	35	90
Babcock Hill 3 (grass)	Oct 2021	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	105,100 gal	21.0	24	35	90
Babcock Hill 3 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	30 lbs		631 lbs	21.0	14	0	0
Babcock Hill 3 (grass)	Aug 2022	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	105,100 gal	21.0	32	35	90
Babcock Hill 3 (grass)	Oct 2022	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	105,100 gal	21.0	24	35	90
Babcock Hill 3 (grass)	Aug 2023	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	105,100 gal	21.0	32	35	90
Babcock Hill 3 (grass)	Oct 2023	Grass	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	5,000 gal	3.3 mph	105,100 gal	21.0	24	35	90
Babcock Hill 6 (corn)	Apr 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	44,655 gal	6.9	42	46	117
Babcock Hill 6 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		1,566 lbs	6.9	105	0	0
Babcock Hill 6 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	18 lbs		124 lbs	6.9	0	0	11
Babcock Hill 6 (corn)	Oct 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	44,655 gal	6.9	38	46	117
Babcock Hill 6 (corn)	Apr 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	44,460 gal	6.8	42	46	117
Babcock Hill 6 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	117 lbs		804 lbs	6.9	54	0	0
Babcock Hill 6 (corn)	Oct 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	44,655 gal	6.9	38	46	117
Babcock Hill 6 (corn)	Apr 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	44,460 gal	6.8	42	46	117
Babcock Hill 6 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	76 lbs		522 lbs	6.9	35	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Babcock Hill 6 (corn)	Oct 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	44,655 gal	6.9	38	46	117
Babcock Hill 10 (corn)	Apr 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,500 gal	3.0	42	46	117
Babcock Hill 10 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	18 lbs		54 lbs	3.0	0	0	11
Babcock Hill 10 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		684 lbs	3.0	105	0	0
Babcock Hill 10 (corn)	Oct 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,500 gal	3.0	38	46	117
Babcock Hill 10 (corn)	Apr 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,500 gal	3.0	42	46	117
Babcock Hill 10 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	117 lbs		351 lbs	3.0	54	0	0
Babcock Hill 10 (corn)	Oct 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,500 gal	3.0	38	46	117
Babcock Hill 10 (corn)	Apr 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,500 gal	3.0	42	46	117
Babcock Hill 10 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	76 lbs		228 lbs	3.0	35	0	0
Babcock Hill 10 (corn)	Oct 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	19,500 gal	3.0	38	46	117
Babcock Hill 11 (corn)	Apr 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	29,250 gal	4.5	42	46	117
Babcock Hill 11 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	228 lbs		1,026 lbs	4.5	105	0	0
Babcock Hill 11 (corn)	Oct 2021	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	29,250 gal	4.5	38	46	117

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Babcock Hill 11 (corn)	Apr 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	29,250 gal	4.5	42	46	117
Babcock Hill 11 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	117 lbs		527 lbs	4.5	54	0	0
Babcock Hill 11 (corn)	Oct 2022	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	29,250 gal	4.5	38	46	117
Babcock Hill 11 (corn)	Apr 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	29,250 gal	4.5	42	46	117
Babcock Hill 11 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	76 lbs		342 lbs	4.5	35	0	0
Babcock Hill 11 (corn)	Oct 2023	Corn for Silage, convent	Briggs Road Lagoon	Drag Line, Not incorporated	Custom	6,500 gal	2.5 mph	29,250 gal	4.5	38	46	117
Madley Rd 1 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	6,750 gal	1.5	29	36	75
Madley Rd 1 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	95 lbs		143 lbs	1.5	0	44	0
Madley Rd 1 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	106 lbs		159 lbs	1.5	0	0	65
Madley Rd 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	284 lbs		426 lbs	1.5	131	0	0
Madley Rd 1 (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	6,750 gal	1.5	21	36	75
Madley Rd 1 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	6,750 gal	1.5	29	36	75
Madley Rd 1 (grass)	Oct 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	6,750 gal	1.5	21	36	75
Madley Rd 1 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	6,750 gal	1.5	29	36	75
Madley Rd 1 (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	6,750 gal	1.5	21	36	75
Madley Rd 2 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	11,700 gal	2.6	29	36	75
Madley Rd 2 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	106 lbs		276 lbs	2.6	0	0	65
Madley Rd 2 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	95 lbs		247 lbs	2.6	0	44	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Madley Rd 2 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	284 lbs		738 lbs	2.6	131	0	0
Madley Rd 2 (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	11,700 gal	2.6	21	36	75
Madley Rd 2 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	11,700 gal	2.6	29	36	75
Madley Rd 2 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	2 lbs		5 lbs	2.6	1	0	0
Madley Rd 2 (grass)	Oct 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	11,700 gal	2.6	21	36	75
Madley Rd 2 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	11,700 gal	2.6	29	36	75
Madley Rd 2 (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	11,700 gal	2.6	21	36	75
Madley Rd 3 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	43,470 gal	6.9	40	44	113
Madley Rd 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	293 lbs		2,022 lbs	6.9	135	0	0
Madley Rd 3 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	13 lbs		90 lbs	6.9	0	6	0
Madley Rd 3 (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	43,470 gal	6.9	40	44	113
Madley Rd 3 (grass)	Jun 2022	Grass	0-46-0	Surface broadcast	Supp. P	13 lbs		90 lbs	6.9	0	6	0
Madley Rd 3 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	265 lbs		1,829 lbs	6.9	122	0	0
Madley Rd 3 (grass)	Jun 2023	Grass	0-46-0	Surface broadcast	1-yr P	108 lbs		745 lbs	6.9	0	50	0
Madley Rd 3 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	339 lbs		2,339 lbs	6.9	156	0	0
Madley Rd 3 (grass)	Jun 2023	Grass	0-0-61	Surface broadcast	1-yr K	23 lbs		159 lbs	6.9	0	0	14
Madley Bozworth (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	31,500 gal	5.0	40	44	113
Madley Bozworth (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	293 lbs		1,465 lbs	5.0	135	0	0
Madley Bozworth (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	13 lbs		65 lbs	5.0	0	6	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Madley Bozworth (grass)	May 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	31,500 gal	5.0	40	44	113
Madley Bozworth (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	265 lbs		1,325 lbs	5.0	122	0	0
Madley Bozworth (grass)	Jun 2022	Grass	0-46-0	Surface broadcast	Supp. P	13 lbs		65 lbs	5.0	0	6	0
Madley Bozworth (grass)	May 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	31,500 gal	5.0	40	44	113
Madley Bozworth (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	252 lbs		1,260 lbs	5.0	116	0	0
Madley Bozworth (grass)	Jun 2023	Grass	0-46-0	Surface broadcast	Supp. P	13 lbs		65 lbs	5.0	0	6	0
Madley Rd 4 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	29	36	75
Madley Rd 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	284 lbs		852 lbs	3.0	131	0	0
Madley Rd 4 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	106 lbs		318 lbs	3.0	0	0	65
Madley Rd 4 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	95 lbs		285 lbs	3.0	0	44	0
Madley Rd 4 (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	21	36	75
Madley Rd 4 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	29	36	75
Madley Rd 4 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	2 lbs		6 lbs	3.0	1	0	0
Madley Rd 4 (grass)	Oct 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	21	36	75
Madley Rd 4 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	29	36	75
Madley Rd 4 (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	13,500 gal	3.0	21	36	75
Waldens 1 (corn)	Apr 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	48,950 gal	8.9	35	44	91

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Waldens 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	304 lbs		2,706 lbs	8.9	140	0	0
Waldens 1 (corn)	Oct 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	48,950 gal	8.9	32	44	91
Waldens 1 (corn)	Apr 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	48,950 gal	8.9	35	44	91
Waldens 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		1,869 lbs	8.9	97	0	0
Waldens 1 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	48,950 gal	8.9	32	44	91
Waldens 1 (corn)	Apr 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	48,950 gal	8.9	35	44	91
Waldens 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	176 lbs		1,566 lbs	8.9	81	0	0
Waldens 1 (corn)	Oct 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	48,950 gal	8.9	32	44	91
Waldens 3 (corn)	Apr 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	53,350 gal	9.7	35	44	91
Waldens 3 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	304 lbs		2,949 lbs	9.7	140	0	0
Waldens 3 (corn)	Oct 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	53,350 gal	9.7	32	44	91
Waldens 3 (corn)	Apr 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	53,350 gal	9.7	35	44	91
Waldens 3 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		2,037 lbs	9.7	97	0	0
Waldens 3 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	53,350 gal	9.7	32	44	91

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Waldens 3 (corn)	Apr 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	53,350 gal	9.7	35	44	91
Waldens 3 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	176 lbs		1,707 lbs	9.7	81	0	0
Waldens 3 (corn)	Oct 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	53,350 gal	9.7	32	44	91
Waldens 6 (corn)	Apr 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	86,350 gal	15.7	35	44	91
Waldens 6 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	304 lbs		4,773 lbs	15.7	140	0	0
Waldens 6 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	47 lbs		738 lbs	15.7	0	0	29
Waldens 6 (corn)	Oct 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	86,350 gal	15.7	32	44	91
Waldens 6 (corn)	Apr 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	86,350 gal	15.7	35	44	91
Waldens 6 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		3,297 lbs	15.7	97	0	0
Waldens 6 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	86,350 gal	15.7	32	44	91
Waldens 6 (corn)	Apr 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	86,350 gal	15.7	35	44	91
Waldens 6 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	176 lbs		2,763 lbs	15.7	81	0	0
Waldens 6 (corn)	Oct 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	86,350 gal	15.7	32	44	91
Waldens 7 (corn)	Apr 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	35	44	91

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Waldens 7 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	47 lbs		52 lbs	1.1	0	0	29
Waldens 7 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	304 lbs		334 lbs	1.1	140	0	0
Waldens 7 (corn)	Oct 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	32	44	91
Waldens 7 (corn)	Apr 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	35	44	91
Waldens 7 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		231 lbs	1.1	97	0	0
Waldens 7 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	32	44	91
Waldens 7 (corn)	Apr 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	35	44	91
Waldens 7 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	176 lbs		194 lbs	1.1	81	0	0
Waldens 7 (corn)	Oct 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	32	44	91
Waldens 10 (corn)	Apr 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	25,300 gal	4.6	35	44	91
Waldens 10 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	304 lbs		1,398 lbs	4.6	140	0	0
Waldens 10 (corn)	Oct 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	25,300 gal	4.6	32	44	91
Waldens 10 (corn)	Apr 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	25,300 gal	4.6	35	44	91
Waldens 10 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		966 lbs	4.6	97	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Waldens 10 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	25,300 gal	4.6	32	44	91
Waldens 10 (corn)	Apr 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	25,300 gal	4.6	35	44	91
Waldens 10 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	176 lbs		810 lbs	4.6	81	0	0
Waldens 10 (corn)	Oct 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	25,300 gal	4.6	32	44	91
Waldens 11 (corn)	Apr 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	35	44	91
Waldens 11 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	304 lbs		334 lbs	1.1	140	0	0
Waldens 11 (corn)	Oct 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	32	44	91
Waldens 11 (corn)	Apr 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	35	44	91
Waldens 11 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		231 lbs	1.1	97	0	0
Waldens 11 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	32	44	91
Waldens 11 (corn)	Apr 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	35	44	91
Waldens 11 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	176 lbs		194 lbs	1.1	81	0	0
Waldens 11 (corn)	Oct 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	6,050 gal	1.1	32	44	91
Waldens 12 (corn)	Apr 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	15,950 gal	2.9	35	44	91

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Waldens 12 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	304 lbs		882 lbs	2.9	140	0	0
Waldens 12 (corn)	Oct 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	15,950 gal	2.9	32	44	91
Waldens 12 (corn)	Apr 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	15,950 gal	2.9	35	44	91
Waldens 12 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		609 lbs	2.9	97	0	0
Waldens 12 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	15,950 gal	2.9	32	44	91
Waldens 12 (corn)	Apr 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	15,950 gal	2.9	35	44	91
Waldens 12 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	176 lbs		510 lbs	2.9	81	0	0
Waldens 12 (corn)	Oct 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	15,950 gal	2.9	32	44	91
Waldens 45 (corn)	Apr 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	192,500 gal	35.0	35	44	91
Waldens 45 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	304 lbs		10,640 lbs	35.0	140	0	0
Waldens 45 (corn)	Oct 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	192,500 gal	35.0	32	44	91
Waldens 45 (corn)	Apr 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	192,500 gal	35.0	35	44	91
Waldens 45 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		7,350 lbs	35.0	97	0	0
Waldens 45 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	192,500 gal	35.0	32	44	91

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Waldens 45 (corn)	Apr 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	192,500 gal	35.0	35	44	91
Waldens 45 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	176 lbs		6,160 lbs	35.0	81	0	0
Waldens 45 (corn)	Oct 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	192,500 gal	35.0	32	44	91
Waldens 14 (corn)	Apr 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	5,500 gal	1.0	35	44	91
Waldens 14 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	304 lbs		304 lbs	1.0	140	0	0
Waldens 14 (corn)	Oct 2021	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	5,500 gal	1.0	32	44	91
Waldens 14 (corn)	Apr 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	5,500 gal	1.0	35	44	91
Waldens 14 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	210 lbs		210 lbs	1.0	97	0	0
Waldens 14 (corn)	Oct 2022	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	5,500 gal	1.0	32	44	91
Waldens 14 (corn)	Apr 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	5,500 gal	1.0	35	44	91
Waldens 14 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	176 lbs		176 lbs	1.0	81	0	0
Waldens 14 (corn)	Oct 2023	Corn for Silage, convent	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	5,500 gal	1.0	32	44	91
Segars 1 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	8.5 loads	85 tons	5.7	9	47	71
Segars 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		1,680 lbs	5.6	138	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Segars 1 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	8.5 loads	85 tons	5.7	8	47	71
Segars 1 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	8.3 loads	83 tons	5.5	9	47	71
Segars 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		1,546 lbs	5.6	127	0	0
Segars 1 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	8.5 loads	85 tons	5.7	8	47	71
Segars 1 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	8.3 loads	83 tons	5.5	9	47	71
Segars 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		1,484 lbs	5.6	122	0	0
Segars 1 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	8.7 loads	87 tons	5.8	8	47	71
Segars 2 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	9	47	71
Segars 2 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	93 lbs		846 lbs	9.1	0	0	57
Segars 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		2,730 lbs	9.1	138	0	0
Segars 2 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	8	47	71
Segars 2 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	9	47	71
Segars 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		2,512 lbs	9.1	127	0	0
Segars 2 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	8	47	71

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Segars 2 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	9	47	71
Segars 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		2,412 lbs	9.1	122	0	0
Segars 2 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	8	47	71
Segars 3 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	17,010 gal	2.7	40	44	113
Segars 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	260 lbs		702 lbs	2.7	120	0	0
Segars 3 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast/incorporate	Supp. K	44 lbs		119 lbs	2.7	0	0	27
Segars 3 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.7 loads	27 tons	2.7	6	31	47
Segars 3 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	89 lbs		240 lbs	2.7	41	0	0
Segars 3 (grass)	Oct 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3 loads	30 tons	3.0	5	31	47
Segars 3 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.4 loads	24 tons	2.4	6	31	47
Segars 3 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	89 lbs		240 lbs	2.7	41	0	0
Segars 3 (grass)	Oct 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.7 loads	27 tons	2.7	5	31	47
Segars 4 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	28,050 gal	5.1	35	44	91
Segars 4 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	80 lbs		408 lbs	5.1	0	0	49
Segars 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	271 lbs		1,382 lbs	5.1	125	0	0
Segars 4 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	28,050 gal	5.1	35	44	91
Segars 4 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	30 lbs		153 lbs	5.1	14	0	0
Segars 4 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	28,050 gal	5.1	35	44	91
Segars 4 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	19 lbs		97 lbs	5.1	9	0	0
Segars 6 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	2,250 gal	0.5	29	36	75
Segars 6 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	286 lbs		143 lbs	0.5	132	0	0
Segars 6 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	170 lbs		85 lbs	0.5	0	0	104
Segars 6 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	182 lbs		91 lbs	0.5	0	84	0
Segars 6 (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	2,250 gal	0.5	21	36	75
Segars 6 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	2,250 gal	0.5	29	36	75

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Segars 6 (grass)	Oct 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	2,250 gal	0.5	21	36	75
Segars 6 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	2,250 gal	0.5	29	36	75
Segars 6 (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	2,250 gal	0.5	21	36	75
Segars 7 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	54,000 gal	12.0	29	36	75
Segars 7 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	284 lbs		3,408 lbs	12.0	131	0	0
Segars 7 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	182 lbs		2,184 lbs	12.0	0	84	0
Segars 7 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	172 lbs		2,064 lbs	12.0	0	0	105
Segars 7 (grass)	Oct 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	54,000 gal	12.0	21	36	75
Segars 7 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	54,000 gal	12.0	29	36	75
Segars 7 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	2 lbs		24 lbs	12.0	1	0	0
Segars 7 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	54,000 gal	12.0	29	36	75
Segars 7 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	19 lbs		228 lbs	12.0	9	0	0
Segars 7 (grass)	Oct 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,500 gal	3.7 mph	54,000 gal	12.0	21	36	75
Segars 8 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	41,160 gal	9.8	27	34	70
Segars 8 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	180 lbs		1,764 lbs	9.8	0	0	110
Segars 8 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	186 lbs		1,823 lbs	9.8	0	86	0
Segars 8 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	289 lbs		2,832 lbs	9.8	133	0	0
Segars 8 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	41,160 gal	9.8	27	34	70
Segars 8 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	54 lbs		529 lbs	9.8	25	0	0
Segars 8 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	41,160 gal	9.8	27	34	70
Segars 8 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	45 lbs		441 lbs	9.8	21	0	0
Segars 9 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	23,100 gal	4.2	35	44	91
Segars 9 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	146 lbs		613 lbs	4.2	0	0	89
Segars 9 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	271 lbs		1,138 lbs	4.2	125	0	0
Segars 9 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	23,100 gal	4.2	35	44	91
Segars 9 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	30 lbs		126 lbs	4.2	14	0	0
Segars 9 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	5,500 gal	3 mph	23,100 gal	4.2	35	44	91
Segars 9 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	19 lbs		80 lbs	4.2	9	0	0
Segars 10 (grass)	May 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	11,970 gal	1.9	40	44	113

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Segars 10 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	260 lbs		494 lbs	1.9	120	0	0
Segars 10 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	44 lbs		84 lbs	1.9	0	0	27
Segars 10 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	1.9 loads	19 tons	1.9	6	31	47
Segars 10 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	89 lbs		169 lbs	1.9	41	0	0
Segars 10 (grass)	Oct 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	2.4 loads	24 tons	2.4	5	31	47
Segars 10 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	1.4 loads	14 tons	1.4	6	31	47
Segars 10 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	89 lbs		169 lbs	1.9	41	0	0
Segars 10 (grass)	Oct 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	1.9 loads	19 tons	1.9	5	31	47
Segars 11 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	28,140 gal	6.7	27	34	70
Segars 11 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	82 lbs		549 lbs	6.7	0	0	50
Segars 11 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	289 lbs		1,936 lbs	6.7	133	0	0
Segars 11 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	28,140 gal	6.7	27	34	70
Segars 11 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	54 lbs		362 lbs	6.7	25	0	0
Segars 11 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	28,140 gal	6.7	27	34	70
Segars 11 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	45 lbs		301 lbs	6.7	21	0	0
Segars 12 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	16,800 gal	4.0	27	34	70
Segars 12 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	82 lbs		328 lbs	4.0	0	0	50
Segars 12 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	289 lbs		1,156 lbs	4.0	133	0	0
Segars 12 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	16,800 gal	4.0	27	34	70
Segars 12 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	54 lbs		216 lbs	4.0	25	0	0
Segars 12 (grass)	May 2023	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	16,800 gal	4.0	27	34	70

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Segars 12 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	45 lbs		180 lbs	4.0	21	0	0
Segars 13 (grass)	May 2021	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	26,880 gal	6.4	27	34	70
Segars 13 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	82 lbs		525 lbs	6.4	0	0	50
Segars 13 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	289 lbs		1,850 lbs	6.4	133	0	0
Segars 13 (grass)	May 2022	Grass	Walden Lagoon	Drag Line, Not incorporated	Custom	4,200 gal	3.9 mph	26,880 gal	6.4	27	34	70
Segars 13 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	54 lbs		346 lbs	6.4	25	0	0
Segars 13 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	104 lbs		666 lbs	6.4	48	0	0
Segars 13 (grass)	Jun 2023	Grass	0-0-61	Surface broadcast	1-yr K	16 lbs		102 lbs	6.4	0	0	10
Carneys 1 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	9	47	71
Carneys 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	360 lbs		3,276 lbs	9.1	166	0	0
Carneys 1 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	146 lbs		1,329 lbs	9.1	0	0	89
Carneys 1 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	8	47	71
Carneys 1 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	9	47	71
Carneys 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	336 lbs		3,058 lbs	9.1	155	0	0
Carneys 1 (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	29 lbs		264 lbs	9.1	0	0	18
Carneys 1 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.9 loads	139 tons	9.3	8	47	71
Carneys 1 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	9	47	71

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Carneys 1 (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	26 lbs		237 lbs	9.1	0	0	16
Carneys 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	326 lbs		2,967 lbs	9.1	150	0	0
Carneys 1 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	13.7 loads	137 tons	9.1	8	47	71
Carneys 2 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	9	47	71
Carneys 2 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	146 lbs		628 lbs	4.3	0	0	89
Carneys 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	360 lbs		1,548 lbs	4.3	166	0	0
Carneys 2 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	8	47	71
Carneys 2 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	9	47	71
Carneys 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	336 lbs		1,445 lbs	4.3	155	0	0
Carneys 2 (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	29 lbs		125 lbs	4.3	0	0	18
Carneys 2 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	8	47	71
Carneys 2 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	9	47	71
Carneys 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	326 lbs		1,402 lbs	4.3	150	0	0
Carneys 2 (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	29 lbs		125 lbs	4.3	0	0	18

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Carneys 2 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	8	47	71
Carneys 3 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	26.6 loads	266 tons	17.7	9	47	71
Carneys 3 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	146 lbs		2,584 lbs	17.7	0	0	89
Carneys 3 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	360 lbs		6,372 lbs	17.7	166	0	0
Carneys 3 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	26.6 loads	266 tons	17.7	8	47	71
Carneys 3 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	26.6 loads	266 tons	17.7	9	47	71
Carneys 3 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	336 lbs		5,947 lbs	17.7	155	0	0
Carneys 3 (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	29 lbs		513 lbs	17.7	0	0	18
Carneys 3 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	27 loads	270 tons	18.0	8	47	71
Carneys 3 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	26.6 loads	266 tons	17.7	9	47	71
Carneys 3 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	326 lbs		5,770 lbs	17.7	150	0	0
Carneys 3 (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	28 lbs		496 lbs	17.7	0	0	17
Carneys 3 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	26.6 loads	266 tons	17.7	8	47	71
Carneys 4 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3.2 loads	32 tons	3.2	6	31	47
Carneys 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	334 lbs		1,069 lbs	3.2	154	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Carneys 4 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	218 lbs		698 lbs	3.2	0	0	133
Carneys 4 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	193 lbs		618 lbs	3.2	0	89	0
Carneys 4 (grass)	Oct 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3.2 loads	32 tons	3.2	5	31	47
Carneys 4 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3.2 loads	32 tons	3.2	6	31	47
Carneys 4 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	102 lbs		326 lbs	3.2	47	0	0
Carneys 4 (grass)	Oct 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3.2 loads	32 tons	3.2	5	31	47
Carneys 4 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	3.2 loads	32 tons	3.2	6	31	47
Carneys 4 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	95 lbs		304 lbs	3.2	44	0	0
Carneys 4 (grass)	Oct 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	1.6 loads	16 tons	1.6	5	31	47
Carneys 5 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5.6 loads	56 tons	5.6	6	31	47
Carneys 5 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	334 lbs		1,870 lbs	5.6	154	0	0
Carneys 5 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	218 lbs		1,221 lbs	5.6	0	0	133
Carneys 5 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	193 lbs		1,081 lbs	5.6	0	89	0
Carneys 5 (grass)	Oct 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5.9 loads	59 tons	5.9	5	31	47
Carneys 5 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5.3 loads	53 tons	5.3	6	31	47
Carneys 5 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	102 lbs		571 lbs	5.6	47	0	0
Carneys 5 (grass)	Oct 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5.6 loads	56 tons	5.6	5	31	47
Carneys 5 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5.6 loads	56 tons	5.6	6	31	47
Carneys 5 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	95 lbs		532 lbs	5.6	44	0	0
Carneys 5 (grass)	Oct 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	5.6 loads	56 tons	5.6	5	31	47
Synagogue Rd 3 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.6 loads	46 tons	4.6	6	31	47

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Synagogue Rd 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	147 lbs		676 lbs	4.6	68	0	0
Synagogue Rd 3 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.6 loads	46 tons	4.6	6	31	47
Synagogue Rd 3 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.6 loads	46 tons	4.6	6	31	47
Synagogue Rd 3 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	139 lbs		639 lbs	4.6	64	0	0
Synagogue Rd 3 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.6 loads	46 tons	4.6	6	31	47
Synagogue Rd 3 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.6 loads	46 tons	4.6	6	31	47
Synagogue Rd 3 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	134 lbs		616 lbs	4.6	62	0	0
Synagogue Rd 3 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.6 loads	46 tons	4.6	6	31	47
Synagogue Rd 4 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.8 loads	48 tons	4.8	6	31	47
Synagogue Rd 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	147 lbs		706 lbs	4.8	68	0	0
Synagogue Rd 4 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.8 loads	48 tons	4.8	6	31	47
Synagogue Rd 4 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.8 loads	48 tons	4.8	6	31	47
Synagogue Rd 4 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	139 lbs		667 lbs	4.8	64	0	0
Synagogue Rd 4 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.8 loads	48 tons	4.8	6	31	47
Synagogue Rd 4 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.8 loads	48 tons	4.8	6	31	47
Synagogue Rd 4 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	134 lbs		643 lbs	4.8	62	0	0
Synagogue Rd 4 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.8 loads	48 tons	4.8	6	31	47
Synagogue Rd 5 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	6 loads	60 tons	6.0	6	31	47
Synagogue Rd 5 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	24 lbs		144 lbs	6.0	0	0	15
Synagogue Rd 5 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	158 lbs		948 lbs	6.0	73	0	0
Synagogue Rd 5 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	0.8 loads	8 tons	0.8	6	31	47

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Synagogue Rd 5 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	6 loads	60 tons	6.0	6	31	47
Synagogue Rd 5 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	143 lbs		858 lbs	6.0	66	0	0
Synagogue Rd 5 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	6 loads	60 tons	6.0	6	31	47
Synagogue Rd 5 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	6 loads	60 tons	6.0	6	31	47
Synagogue Rd 5 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	136 lbs		816 lbs	6.0	63	0	0
Synagogue Rd 5 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	6 loads	60 tons	6.0	6	31	47
Synagogue Rd 6 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.1 loads	41 tons	4.1	6	31	47
Synagogue Rd 6 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	147 lbs		603 lbs	4.1	68	0	0
Synagogue Rd 6 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.1 loads	41 tons	4.1	6	31	47
Synagogue Rd 6 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.1 loads	41 tons	4.1	6	31	47
Synagogue Rd 6 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	139 lbs		570 lbs	4.1	64	0	0
Synagogue Rd 6 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.1 loads	41 tons	4.1	6	31	47
Synagogue Rd 6 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.1 loads	41 tons	4.1	6	31	47
Synagogue Rd 6 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	134 lbs		549 lbs	4.1	62	0	0
Synagogue Rd 6 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	4.1 loads	41 tons	4.1	6	31	47
Synagogue Rd 9 (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	0.8 loads	8 tons	0.8	6	31	47
Synagogue Rd 9 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	147 lbs		118 lbs	0.8	68	0	0
Synagogue Rd 9 (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	0.8 loads	8 tons	0.8	6	31	47
Synagogue Rd 9 (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	0.8 loads	8 tons	0.8	6	31	47
Synagogue Rd 9 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	139 lbs		111 lbs	0.8	64	0	0
Synagogue Rd 9 (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	0.8 loads	8 tons	0.8	6	31	47

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Synagogue Rd 9 (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	0.8 loads	8 tons	0.8	6	31	47
Synagogue Rd 9 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	134 lbs		107 lbs	0.8	62	0	0
Synagogue Rd 9 (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	0.8 loads	8 tons	0.8	6	31	47
M City Rd 1 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	9	47	71
M City Rd 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		1,290 lbs	4.3	138	0	0
M City Rd 1 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	93 lbs		400 lbs	4.3	0	0	57
M City Rd 1 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	8	47	71
M City Rd 1 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	9	47	71
M City Rd 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		1,187 lbs	4.3	127	0	0
M City Rd 1 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.6 loads	66 tons	4.4	8	47	71
M City Rd 1 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.5 loads	65 tons	4.3	9	47	71
M City Rd 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		1,140 lbs	4.3	122	0	0
M City Rd 1 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	6.6 loads	66 tons	4.4	8	47	71
M City Rd 2 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	18.8 loads	188 tons	12.5	9	47	71
M City Rd 2 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	1 lbs		13 lbs	12.5	0	0	1

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
M City Rd 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		3,750 lbs	12.5	138	0	0
M City Rd 2 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	18.8 loads	188 tons	12.5	8	47	71
M City Rd 2 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	18.8 loads	188 tons	12.5	9	47	71
M City Rd 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		3,450 lbs	12.5	127	0	0
M City Rd 2 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	18.9 loads	189 tons	12.6	8	47	71
M City Rd 2 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	18.8 loads	188 tons	12.5	9	47	71
M City Rd 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		3,313 lbs	12.5	122	0	0
M City Rd 2 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	19 loads	190 tons	12.7	8	47	71
M City Rd 3 (corn)	Apr 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	3.5 loads	35 tons	2.3	9	47	71
M City Rd 3 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	300 lbs		690 lbs	2.3	138	0	0
M City Rd 3 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	Supp. K	1 lbs		2 lbs	2.3	0	0	1
M City Rd 3 (corn)	Oct 2021	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	3.5 loads	35 tons	2.3	8	47	71
M City Rd 3 (corn)	Apr 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	3.5 loads	35 tons	2.3	9	47	71
M City Rd 3 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	276 lbs		635 lbs	2.3	127	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
M City Rd 3 (corn)	Oct 2022	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	3.5 loads	35 tons	2.3	8	47	71
M City Rd 3 (corn)	Apr 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	3.5 loads	35 tons	2.3	9	47	71
M City Rd 3 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	265 lbs		609 lbs	2.3	122	0	0
M City Rd 3 (corn)	Oct 2023	Corn for Silage, convent	Compost Building	box spreader, Not incorporated	Custom	15 tons	3.6 loads	36 tons	2.4	8	47	71
Winery (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	218 lbs		5,886 lbs	27.0	0	0	133
Winery (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	334 lbs		9,018 lbs	27.0	154	0	0
Winery (grass)	Aug 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	27 loads	270 tons	27.0	6	31	47
Winery (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	113 lbs		3,051 lbs	27.0	52	0	0
Winery (grass)	Aug 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	27 loads	270 tons	27.0	6	31	47
Winery (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	110 lbs		2,970 lbs	27.0	51	0	0
Winery (grass)	Aug 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	27 loads	270 tons	27.0	6	31	47
Randazzo (grass)	May 2021	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	14.4 loads	144 tons	14.4	6	31	47
Randazzo (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	Supp. N	334 lbs		4,810 lbs	14.4	154	0	0
Randazzo (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	Supp. K	152 lbs		2,189 lbs	14.4	0	0	93
Randazzo (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	Supp. P	63 lbs		907 lbs	14.4	0	29	0
Randazzo (grass)	May 2022	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	14.4 loads	144 tons	14.4	6	31	47
Randazzo (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	Supp. N	113 lbs		1,627 lbs	14.4	52	0	0
Randazzo (grass)	May 2023	Grass	Compost Building	box spreader, Not incorporated	Custom	10 tons	14.4 loads	144 tons	14.4	6	31	47
Randazzo (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	Supp. N	110 lbs		1,584 lbs	14.4	51	0	0
Chappel Rd Corn (corn)	Apr 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	96,000 gal	12.0	51	56	144

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Chappel Rd Corn (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	208 lbs		2,496 lbs	12.0	96	0	0
Chappel Rd Corn (corn)	Oct 2021	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	96,000 gal	12.0	47	56	144
Chappel Rd Corn (corn)	Apr 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	96,000 gal	12.0	51	56	144
Chappel Rd Corn (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	71 lbs		852 lbs	12.0	33	0	0
Chappel Rd Corn (corn)	Oct 2022	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	96,000 gal	12.0	47	56	144
Chappel Rd Corn (corn)	Apr 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	96,000 gal	12.0	51	56	144
Chappel Rd Corn (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	Supp. N	21 lbs		252 lbs	12.0	10	0	0
Chappel Rd Corn (corn)	Oct 2023	Corn for Silage, convent	Milkers - Lagoon	Drag Line, Not incorporated	Custom	8,000 gal	2.1 mph	96,000 gal	12.0	47	56	144
Chappel Rd Gras (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	86 lbs		430 lbs	5.0	40	0	0
Chappel Rd Gras (grass)	Aug 2021	Grass	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	31,500 gal	5.0	40	44	113
Chappel Rd Gras (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	58 lbs		290 lbs	5.0	27	0	0
Chappel Rd Gras (grass)	Aug 2022	Grass	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	31,500 gal	5.0	40	44	113
Chappel Rd Gras (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	45 lbs		225 lbs	5.0	21	0	0
Chappel Rd Gras (grass)	Aug 2023	Grass	Milkers - Lagoon	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	31,500 gal	5.0	40	44	113
Xmas Tree Grass (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	86 lbs		1,720 lbs	20.0	40	0	0
Xmas Tree Grass (grass)	Aug 2021	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	126,000 gal	20.0	40	44	113
Xmas Tree Grass (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	58 lbs		1,160 lbs	20.0	27	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Loads, Speed or Time	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Xmas Tree Grass (grass)	Aug 2022	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	126,000 gal	20.0	40	44	113
Xmas Tree Grass (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	45 lbs		900 lbs	20.0	21	0	0
Xmas Tree Grass (grass)	Aug 2023	Grass	Milker - Slurrystore	Drag Line, Not incorporated	Custom	6,300 gal	2.6 mph	126,000 gal	20.0	40	44	113

Planned Nutrient Applications (Non-manure-spreadable Area)

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Strauss 4 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	42 lbs	11 lbs	0.3	0	0	26
Strauss 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	321 lbs	83 lbs	0.3	148	0	0
Strauss 4 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	73 lbs	19 lbs	0.3	34	0	0
Strauss 4 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	69 lbs	18 lbs	0.3	32	0	0
Strauss 12 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	42 lbs	7 lbs	0.2	0	0	26
Strauss 12 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	321 lbs	55 lbs	0.2	148	0	0
Strauss 12 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	73 lbs	12 lbs	0.2	34	0	0
Strauss 12 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	69 lbs	12 lbs	0.2	32	0	0
Strauss 13 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	300 lbs	9 lbs	0.0	138	0	0
Strauss 13 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	276 lbs	8 lbs	0.0	127	0	0
Strauss 13 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	265 lbs	8 lbs	0.0	122	0	0
Bender/V.Hill 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	208 lbs	77 lbs	0.4	96	0	0
Bender/V.Hill 6 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	228 lbs	160 lbs	0.7	105	0	0
Bender/V.Hill 6 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	18 lbs	13 lbs	0.7	0	0	11
Bender/V.Hill 6 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	117 lbs	82 lbs	0.7	54	0	0
Bender/V.Hill 6 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	76 lbs	53 lbs	0.7	35	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Scanlon back (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	269 lbs	135 lbs	0.5	124	0	0
Scanlon back (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	132 lbs	66 lbs	0.5	61	0	0
Scanlon back (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	82 lbs	41 lbs	0.5	38	0	0
Scanlon front (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	289 lbs	145 lbs	0.5	133	0	0
Scanlon front (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	178 lbs	89 lbs	0.5	82	0	0
Scanlon front (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	136 lbs	68 lbs	0.5	63	0	0
Left of Scanlon (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	8 lbs	1 lbs	0.1	0	0	5
Left of Scanlon (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	84 lbs	8 lbs	0.1	0	39	0
Left of Scanlon (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	317 lbs	32 lbs	0.1	146	0	0
Left of Scanlon (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	2 lbs	0 lbs	0.1	1	0	0
EvergreenFarm 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	147 lbs	225 lbs	1.5	68	0	0
EvergreenFarm 1 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	139 lbs	213 lbs	1.5	64	0	0
EvergreenFarm 1 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	134 lbs	205 lbs	1.5	62	0	0
EvergreenFarm 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	289 lbs	335 lbs	1.2	133	0	0
EvergreenFarm 2 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	5 lbs	6 lbs	1.2	0	0	3
EvergreenFarm 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	178 lbs	206 lbs	1.2	82	0	0
EvergreenFarm 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	136 lbs	158 lbs	1.2	63	0	0
EvergreenFarm 3 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	5 lbs	13 lbs	2.5	0	0	3
EvergreenFarm 3 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	289 lbs	723 lbs	2.5	133	0	0
EvergreenFarm 3 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	178 lbs	445 lbs	2.5	82	0	0
EvergreenFarm 3 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	136 lbs	340 lbs	2.5	63	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
EvergreenFarm 4 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	5 lbs	1 lbs	0.3	0	0	3
EvergreenFarm 4 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	289 lbs	87 lbs	0.3	133	0	0
EvergreenFarm 4 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	178 lbs	53 lbs	0.3	82	0	0
EvergreenFarm 4 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	136 lbs	41 lbs	0.3	63	0	0
Young Stock 5 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	321 lbs	138 lbs	0.4	148	0	0
Young Stock 5 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	42 lbs	18 lbs	0.4	0	0	26
Young Stock 5 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	291 lbs	125 lbs	0.4	134	0	0
Young Stock 5 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	278 lbs	120 lbs	0.4	128	0	0
Young Stock 7 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	182 lbs	29 lbs	0.2	0	84	0
Young Stock 7 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	284 lbs	45 lbs	0.2	131	0	0
Young Stock 7 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	73 lbs	12 lbs	0.2	0	0	45
Young Stock 7 (grass)	Jun 2022	Grass	0-46-0	Surface broadcast	1-yr P	104 lbs	17 lbs	0.2	0	48	0
Young Stock 7 (grass)	Jun 2022	Grass	0-0-0		Custom	gal	0 gal	0.2			
Young Stock 7 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	219 lbs	35 lbs	0.2	101	0	0
Young Stock 7 (grass)	Jun 2023	Grass	0-46-0	Surface broadcast	1-yr P	104 lbs	17 lbs	0.2	0	48	0
Young Stock 7 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	191 lbs	31 lbs	0.2	88	0	0
Keys (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	173 lbs	104 lbs	0.6	80	0	0
Keys (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	91 lbs	55 lbs	0.6	0	0	56
Keys (grass)	Jun 2021	Grass	0-61-0	Surface broadcast	1-yr P	36 lbs	22 lbs	0.6	0	22	0
Keys (grass)	Jun 2022	Grass	0-46-0	Surface broadcast	1-yr P	39 lbs	23 lbs	0.6	0	18	0
Keys (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	173 lbs	104 lbs	0.6	80	0	0
Keys (grass)	Jun 2022	Grass	0-0-61	Surface broadcast	1-yr K	85 lbs	51 lbs	0.6	0	0	52
Keys (grass)	Jun 2023	Grass	0-46-0	Surface broadcast	1-yr P	36 lbs	22 lbs	0.6	0	17	0
Keys (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	173 lbs	104 lbs	0.6	80	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Keys (grass)	Jun 2023	Grass	0-0-61	Surface broadcast	1-yr K	83 lbs	50 lbs	0.6	0	0	51
Krause 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	208 lbs	35 lbs	0.2	96	0	0
Krause 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	208 lbs	229 lbs	1.1	96	0	0
BoggLn Valley1 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	80 lbs	114 lbs	1.4	0	0	49
BoggLn Valley1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	360 lbs	511 lbs	1.4	166	0	0
BoggLn Valley1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	336 lbs	477 lbs	1.4	155	0	0
BoggLn Valley1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	326 lbs	463 lbs	1.4	150	0	0
Bogg Ln 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	284 lbs	378 lbs	1.3	131	0	0
Bogg Ln 1 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	106 lbs	141 lbs	1.3	0	0	65
Bogg Ln 1 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	52 lbs	69 lbs	1.3	0	24	0
Bogg Ln 1 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	2 lbs	3 lbs	1.3	1	0	0
Bogg Ln 2 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	106 lbs	11 lbs	0.1	0	0	65
Bogg Ln 2 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	52 lbs	5 lbs	0.1	0	24	0
Bogg Ln 2 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	284 lbs	28 lbs	0.1	131	0	0
Bogg Ln 2 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	2 lbs	0 lbs	0.1	1	0	0
10acre Lot (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	208 lbs	728 lbs	3.5	96	0	0
10acre Lot (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	71 lbs	249 lbs	3.5	33	0	0
10acre Lot (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	21 lbs	74 lbs	3.5	10	0	0
LowBabcockHill1 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	82 lbs	8 lbs	0.1	0	0	50
LowBabcockHill1 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	97 lbs	10 lbs	0.1	0	45	0
LowBabcockHill1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	278 lbs	28 lbs	0.1	128	0	0
LowBabcockHill2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	236 lbs	491 lbs	2.1	109	0	0
LowBabcockHill2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	100 lbs	208 lbs	2.1	46	0	0
LowBabcockHill2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	50 lbs	104 lbs	2.1	23	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Kick Hill Lot (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs	38 lbs	0.1	175	0	0
Kick Hill Lot (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	91 lbs	9 lbs	0.1	0	0	56
Kick Hill Lot (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	380 lbs	38 lbs	0.1	175	0	0
Kick Hill Lot (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	85 lbs	8 lbs	0.1	0	0	52
Kick Hill Lot (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	85 lbs	8 lbs	0.1	0	0	52
Kick Hill Lot (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast/incorporate	1-yr N	380 lbs	38 lbs	0.1	175	0	0
Bender 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	108 lbs	12 lbs	0.1	50	0	0
Bender 1 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	89 lbs	10 lbs	0.1	41	0	0
Bender 1 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	80 lbs	9 lbs	0.1	37	0	0
Bender 2 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	108 lbs	32 lbs	0.3	50	0	0
Bender 2 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	89 lbs	27 lbs	0.3	41	0	0
Bender 2 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	80 lbs	24 lbs	0.3	37	0	0
Babcock Hill 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	104 lbs	396 lbs	3.8	48	0	0
Babcock Hill 1 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	30 lbs	114 lbs	3.8	14	0	0
Babcock Hill 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	104 lbs	30 lbs	0.3	48	0	0
Babcock Hill 3 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	30 lbs	9 lbs	0.3	14	0	0
Babcock Hill 10 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	228 lbs	91 lbs	0.4	105	0	0
Babcock Hill 10 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	18 lbs	7 lbs	0.4	0	0	11
Babcock Hill 10 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	117 lbs	47 lbs	0.4	54	0	0
Babcock Hill 10 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	76 lbs	30 lbs	0.4	35	0	0
Babcock Hill 11 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	228 lbs	228 lbs	1.0	105	0	0
Babcock Hill 11 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	117 lbs	117 lbs	1.0	54	0	0
Babcock Hill 11 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	76 lbs	76 lbs	1.0	35	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Madley Rd 1 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	284 lbs	114 lbs	0.4	131	0	0
Madley Rd 1 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	95 lbs	38 lbs	0.4	0	44	0
Madley Rd 1 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	106 lbs	42 lbs	0.4	0	0	65
Madley Rd 4 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	95 lbs	95 lbs	1.0	0	44	0
Madley Rd 4 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	284 lbs	284 lbs	1.0	131	0	0
Madley Rd 4 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	106 lbs	106 lbs	1.0	0	0	65
Madley Rd 4 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	2 lbs	2 lbs	1.0	1	0	0
Waldens 6 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	47 lbs	9 lbs	0.2	0	0	29
Waldens 6 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	304 lbs	61 lbs	0.2	140	0	0
Waldens 6 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	210 lbs	42 lbs	0.2	97	0	0
Waldens 6 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	176 lbs	35 lbs	0.2	81	0	0
Segars 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	300 lbs	90 lbs	0.3	138	0	0
Segars 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	276 lbs	83 lbs	0.3	127	0	0
Segars 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	265 lbs	80 lbs	0.3	122	0	0
Segars 3 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast/incorporate	1-yr K	44 lbs	40 lbs	0.9	0	0	27
Segars 3 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	260 lbs	234 lbs	0.9	120	0	0
Segars 3 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	89 lbs	80 lbs	0.9	41	0	0
Segars 3 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	89 lbs	80 lbs	0.9	41	0	0
Segars 6 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	286 lbs	372 lbs	1.3	132	0	0
Segars 6 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	182 lbs	237 lbs	1.3	0	84	0
Segars 6 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	170 lbs	221 lbs	1.3	0	0	104
Segars 7 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	182 lbs	18 lbs	0.1	0	84	0
Segars 7 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	284 lbs	28 lbs	0.1	131	0	0
Segars 7 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	172 lbs	17 lbs	0.1	0	0	105

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Segars 7 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	2 lbs	0 lbs	0.1	1	0	0
Segars 7 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	19 lbs	2 lbs	0.1	9	0	0
Segars 8 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	186 lbs	56 lbs	0.3	0	86	0
Segars 8 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	289 lbs	87 lbs	0.3	133	0	0
Segars 8 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	180 lbs	54 lbs	0.3	0	0	110
Segars 8 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	54 lbs	16 lbs	0.3	25	0	0
Segars 8 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	45 lbs	14 lbs	0.3	21	0	0
Segars 10 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	44 lbs	9 lbs	0.2	0	0	27
Segars 10 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	260 lbs	52 lbs	0.2	120	0	0
Segars 10 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	89 lbs	18 lbs	0.2	41	0	0
Segars 10 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	89 lbs	18 lbs	0.2	41	0	0
Segars 11 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	289 lbs	58 lbs	0.2	133	0	0
Segars 11 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	82 lbs	16 lbs	0.2	0	0	50
Segars 11 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	54 lbs	11 lbs	0.2	25	0	0
Segars 11 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	45 lbs	9 lbs	0.2	21	0	0
Segars 12 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	82 lbs	107 lbs	1.3	0	0	50
Segars 12 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	289 lbs	376 lbs	1.3	133	0	0
Segars 12 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	54 lbs	70 lbs	1.3	25	0	0
Segars 12 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	45 lbs	59 lbs	1.3	21	0	0
Segars 13 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	289 lbs	578 lbs	2.0	133	0	0
Segars 13 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	82 lbs	164 lbs	2.0	0	0	50
Segars 13 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	54 lbs	108 lbs	2.0	25	0	0
Segars 13 (grass)	Jun 2023	Grass	0-0-61	Surface broadcast	1-yr K	16 lbs	32 lbs	2.0	0	0	10
Segars 13 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	104 lbs	208 lbs	2.0	48	0	0
Carneys 3 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	146 lbs	15 lbs	0.1	0	0	89
Carneys 3 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	360 lbs	36 lbs	0.1	166	0	0
Carneys 3 (corn)	Jun 2022	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	29 lbs	3 lbs	0.1	0	0	18
Carneys 3 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	336 lbs	34 lbs	0.1	155	0	0

Field	App. Month	Target Crop	Nutrient Source	Application Method	Rate Basis	Rate/Acre	Total Amount Applied	Acres Cov.	Avail N (lbs/ac)	Avail P_2O_5 (lbs/ac)	Avail K_2O (lbs/ac)
Carneys 3 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	326 lbs	33 lbs	0.1	150	0	0
Carneys 3 (corn)	Jun 2023	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	28 lbs	3 lbs	0.1	0	0	17
Carneys 5 (grass)	Jun 2021	Grass	0-46-0	Surface broadcast	1-yr P	193 lbs	154 lbs	0.8	0	89	0
Carneys 5 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	334 lbs	267 lbs	0.8	154	0	0
Carneys 5 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	218 lbs	174 lbs	0.8	0	0	133
Carneys 5 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	102 lbs	82 lbs	0.8	47	0	0
Carneys 5 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	95 lbs	76 lbs	0.8	44	0	0
Synagogue Rd 5 (grass)	Jun 2021	Grass	0-0-61	Surface broadcast	1-yr K	24 lbs	7 lbs	0.3	0	0	15
Synagogue Rd 5 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	158 lbs	47 lbs	0.3	73	0	0
Synagogue Rd 5 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	143 lbs	43 lbs	0.3	66	0	0
Synagogue Rd 5 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	136 lbs	41 lbs	0.3	63	0	0
Synagogue Rd 9 (grass)	Jun 2021	Grass	46-0-0	Surface broadcast	1-yr N	147 lbs	265 lbs	1.8	68	0	0
Synagogue Rd 9 (grass)	Jun 2022	Grass	46-0-0	Surface broadcast	1-yr N	139 lbs	250 lbs	1.8	64	0	0
Synagogue Rd 9 (grass)	Jun 2023	Grass	46-0-0	Surface broadcast	1-yr N	134 lbs	241 lbs	1.8	62	0	0
M City Rd 1 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	93 lbs	9 lbs	0.1	0	0	57
M City Rd 1 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	300 lbs	30 lbs	0.1	138	0	0
M City Rd 1 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	276 lbs	28 lbs	0.1	127	0	0
M City Rd 1 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	265 lbs	26 lbs	0.1	122	0	0
M City Rd 2 (corn)	Jun 2021	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	300 lbs	60 lbs	0.2	138	0	0
M City Rd 2 (corn)	Jun 2021	Corn for Silage, convent	0-0-61	Surface broadcast	1-yr K	1 lbs	0 lbs	0.2	0	0	1
M City Rd 2 (corn)	Jun 2022	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	276 lbs	55 lbs	0.2	127	0	0
M City Rd 2 (corn)	Jun 2023	Corn for Silage, convent	46-0-0	Surface broadcast	1-yr N	265 lbs	53 lbs	0.2	122	0	0

6.8. Field Nutrient Balance (Manure-spreadable Area)

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2021	Strauss 2 (corn)	10.7	Corn for Silage, convent	25	147	0	128	147	47	128	0	47	0	-78	-147
2022	Strauss 2 (corn)	10.7	Corn for Silage, convent	25	147	0	128	144	94	142	0[g]	141	14	-31	-133
2023	Strauss 2 (corn)	10.7	Corn for Silage, convent	25	147	0	128	139	94	142	0[g]	235	28	-31	-133
Total	**Strauss 2 (corn)**				**441**	**0**	**384**	**430**	**235**	**412**					
2021	Strauss 4 (grass)	5.0	Grass	4	160[e]	0[e]	120[e]	160	62	120	0	62	0	18	-63
2022	Strauss 4 (grass)	5.0	Grass	4	50[e]	20[e]	30[e]	46	62	94	0[g]	104	64	36	-89
2023	Strauss 4 (grass)	5.0	Grass	4	50[e]	20[e]	30[e]	44	62	94	0[g]	146	128	54	-89
Total	**Strauss 4 (grass)**				**260**	**40**	**180**	**250**	**186**	**308**					
2021	Strauss 6 (corn)	3.1	Corn for Silage, convent	25	147	0	72	147	47	72	0	47	0	-78	-203
2022	Strauss 6 (corn)	3.1	Corn for Silage, convent	25	147	0	72	144	48	73	0[g]	95	1	-77	-202
2023	Strauss 6 (corn)	3.1	Corn for Silage, convent	25	147	0	72	142	48	73	0[g]	143	2	-77	-202
Total	**Strauss 6 (corn)**				**441**	**0**	**216**	**433**	**143**	**218**					
2021	Strauss 7 (corn)	3.2	Corn for Silage, convent	25	147	0	72	147	47	72	0	47	0	-78	-203
2022	Strauss 7 (corn)	3.2	Corn for Silage, convent	25	147	0	72	144	47	72	0[g]	94	0	-78	-203
2023	Strauss 7 (corn)	3.2	Corn for Silage, convent	25	147	0	72	142	94	142	0[g]	188	70	-31	-133
Total	**Strauss 7 (corn)**				**441**	**0**	**216**	**433**	**188**	**286**					
2021	Strauss 12 (grass)	2.9	Grass	4	160[e]	0[e]	120[e]	160	62	120	0	62	0	18	-63
2022	Strauss 12 (grass)	2.9	Grass	4	50[e]	20[e]	30[e]	46	62	94	0[g]	104	64	36	-89
2023	Strauss 12 (grass)	2.9	Grass	4	50[e]	20[e]	30[e]	44	62	94	0[g]	146	128	54	-89
Total	**Strauss 12 (grass)**				**260**	**40**	**180**	**250**	**186**	**308**					
2021	Strauss 13 (corn)	8.4	Corn for Silage, convent	25	147	0	0	147	47	71	0	47	71	-78	-204
2022	Strauss 13 (corn)	8.4	Corn for Silage, convent	25	147	0	0	144	94	142	0[g]	141	213	-31	-133
2023	Strauss 13 (corn)	8.4	Corn for Silage, convent	25	147	0	0	139	94	142	0[g]	235	355	-31	-133
Total	**Strauss 13 (corn)**				**441**	**0**	**0**	**430**	**235**	**355**					
2021	Strauss 5 (corn)	3.7	Corn for Silage, convent	25	147	0	128	147	47	128	0	47	0	-78	-147
2022	Strauss 5 (corn)	3.7	Corn for Silage, convent	25	147	0	128	144	94	142	0[g]	141	14	-31	-133
2023	Strauss 5 (corn)	3.7	Corn for Silage, convent	25	147	0	128	139	94	142	0[g]	235	28	-31	-133
Total	**Strauss 5 (corn)**				**441**	**0**	**384**	**430**	**235**	**412**					

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2021	Bender/V.Hill3A (corn)	5.6	Corn for Silage, convent	20	147	0	128	147	46	128	0	46	0	-54	-92
2022	Bender/V.Hill3A (corn)	5.6	Corn for Silage, convent	20	147	0	128	134	92	233	0[g]	138	105	-8	13
2023	Bender/V.Hill3A (corn)	5.6	Corn for Silage, convent	20	147	0	128	115	92	233	0[g]	230	210	-8	26
Total	**Bender/V.Hill3A (corn)**				**441**	**0**	**384**	**396**	**230**	**594**					
2021	Bender/V.Hill3B (grass)	6.6	Grass	4	160[e]	60[e]	120[e]	160	71	181	0	11	61	27	-2
2022	Bender/V.Hill3B (grass)	6.6	Grass	4	60[e]	30[e]	40[e]	64	71	181	24[g]	52	202	54	-2
2023	Bender/V.Hill3B (grass)	6.6	Grass	4	60[e]	30[e]	40[e]	64	71	181	32[g]	93	343	81	-2
Total	**Bender/V.Hill3B (grass)**				**280**	**120**	**200**	**288**	**213**	**543**					
2021	Bender/V.Hill 4 (grass)	11.4	Grass	4	160[e]	60[e]	120[e]	160	70	180	0	10	60	26	-3
2022	Bender/V.Hill 4 (grass)	11.4	Grass	4	60[e]	30[e]	40[e]	64	70	180	24[g]	50	200	52	-3
2023	Bender/V.Hill 4 (grass)	11.4	Grass	4	60[e]	30[e]	40[e]	64	70	180	32[g]	90	340	78	-3
Total	**Bender/V.Hill 4 (grass)**				**280**	**120**	**200**	**288**	**210**	**540**					
2021	Bender/V.Hill 5 (corn)	5.2	Corn for Silage, convent	20	147	0	128	147	46	128	0	46	0	-54	-92
2022	Bender/V.Hill 5 (corn)	5.2	Corn for Silage, convent	20	147	0	128	134	92	233	0[g]	138	105	-8	13
2023	Bender/V.Hill 5 (corn)	5.2	Corn for Silage, convent	20	147	0	128	115	92	233	0[g]	230	210	-8	26
Total	**Bender/V.Hill 5 (corn)**				**441**	**0**	**384**	**396**	**230**	**594**					
2021	Bender/V.Hill 6 (corn)	14.0	Corn for Silage, convent	20	147	0	128	147	46	128	0	46	0	-54	-92
2022	Bender/V.Hill 6 (corn)	14.0	Corn for Silage, convent	20	147	0	128	134	92	234	0[g]	138	106	-8	14
2023	Bender/V.Hill 6 (corn)	14.0	Corn for Silage, convent	20	147	0	128	115	92	234	0[g]	230	212	-8	28
Total	**Bender/V.Hill 6 (corn)**				**441**	**0**	**384**	**396**	**230**	**596**					
2021	Flegerts 1 (corn)	3.8	Corn for Silage, convent	25	147	0	0	147	48	72	0	48	72	-77	-203
2022	Flegerts 1 (corn)	3.8	Corn for Silage, convent	25	147	0	0	144	95	143	0[g]	143	215	-30	-132
2023	Flegerts 1 (corn)	3.8	Corn for Silage, convent	25	147	0	0	139	95	143	0[g]	238	358	-30	-132
Total	**Flegerts 1 (corn)**				**441**	**0**	**0**	**430**	**238**	**358**					
2021	Flegerts 2 (corn)	8.6	Corn for Silage, convent	25	147	0	0	147	48	72	0	48	72	-77	-203
2022	Flegerts 2 (corn)	8.6	Corn for Silage, convent	25	147	0	0	144	94	142	0[g]	142	214	-31	-133
2023	Flegerts 2 (corn)	8.6	Corn for Silage, convent	25	147	0	0	139	94	142	0[g]	236	356	-31	-133
Total	**Flegerts 2 (corn)**				**441**	**0**	**0**	**430**	**236**	**356**					
2021	Flegerts 3 (corn)	0.7	Corn for Silage, convent	25	147	0	0	147	46	70	0	46	70	-79	-205

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2022	Flegerts 3 (corn)	0.7	Corn for Silage, convent	25	147	0	0	144	54	80	0[g]	100	150	-71	-195
2023	Flegerts 3 (corn)	0.7	Corn for Silage, convent	25	147	0	0	142	73	110	0[g]	173	260	-52	-165
Total	**Flegerts 3 (corn)**				**441**	**0**	**0**	**433**	**173**	**260**					
2021	Flegerts 4 (corn)	7.0	Corn for Silage, convent	25	147	0	0	147	47	71	0	47	71	-78	-204
2022	Flegerts 4 (corn)	7.0	Corn for Silage, convent	25	147	0	0	144	94	142	0[g]	141	213	-31	-133
2023	Flegerts 4 (corn)	7.0	Corn for Silage, convent	25	147	0	0	139	96	145	0[g]	237	358	-29	-130
Total	**Flegerts 4 (corn)**				**441**	**0**	**0**	**430**	**237**	**358**					
2021	Flegerts 5 (corn)	4.9	Corn for Silage, convent	25	147	0	0	147	47	71	0	47	71	-78	-204
2022	Flegerts 5 (corn)	4.9	Corn for Silage, convent	25	147	0	0	144	94	142	0[g]	141	213	-31	-133
2023	Flegerts 5 (corn)	4.9	Corn for Silage, convent	25	147	0	0	139	95	143	0[g]	236	356	-30	-132
Total	**Flegerts 5 (corn)**				**441**	**0**	**0**	**430**	**236**	**356**					
2021	Flegerts 6 (corn)	3.0	Corn for Silage, convent	25	147	0	0	147	51	75	0	51	75	-74	-200
2022	Flegerts 6 (corn)	3.0	Corn for Silage, convent	25	147	0	0	147	94	142	0	145	217	-31	-133
2023	Flegerts 6 (corn)	3.0	Corn for Silage, convent	25	147	0	0	141	96	144	0[g]	241	361	-29	-131
Total	**Flegerts 6 (corn)**				**441**	**0**	**0**	**435**	**241**	**361**					
2021	Home Farm 1 (corn)	53.2	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	4	60	0	4	0	-146	-270
2022	Home Farm 1 (corn)	53.2	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	8	60	0	12	0	-142	-270
2023	Home Farm 1 (corn)	53.2	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	8	60	0	20	0	-142	-270
Total	**Home Farm 1 (corn)**				**525**	**0**	**180**	**525**	**20**	**180**					
2021	Home Farm 2 (corn)	19.8	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	4	60	0	4	0	-146	-270
2022	Home Farm 2 (corn)	19.8	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	8	60	0	12	0	-142	-270
2023	Home Farm 2 (corn)	19.8	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	8	60	0	20	0	-142	-270
Total	**Home Farm 2 (corn)**				**525**	**0**	**180**	**525**	**20**	**180**					
2021	Home Farm 4 (corn)	8.1	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	4	60	0	4	0	-146	-270
2022	Home Farm 4 (corn)	8.1	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	8	60	0	12	0	-142	-270
2023	Home Farm 4 (corn)	8.1	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	8	60	0	20	0	-142	-270
Total	**Home Farm 4 (corn)**				**525**	**0**	**180**	**525**	**20**	**180**					
2021	Home Farm 5 (grass)	7.8	Grass	4	160[e]	60[e]	140[e]	160	60	140	0	0	0	16	-43
2022	Home Farm 5 (grass)	7.8	Grass	4	60[e]	30[e]	40[e]	60	30	40	0	0	0	2	-143

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2023	Home Farm 5 (grass)	7.8	Grass	4	60[e]	30[e]	40[e]	60	30	40	0	0	0	-12	-143
Total	**Home Farm 5 (grass)**				**280**	**120**	**220**	**280**	**120**	**220**					
2021	Home Farm 6 (grass)	2.7	Grass	4	160[e]	0[e]	100[e]	160	12	100	0	12	0	-32	-83
2022	Home Farm 6 (grass)	2.7	Grass	4	50[e]	20[e]	30[e]	50	16	30	0	8	0	-28	-153
2023	Home Farm 6 (grass)	2.7	Grass	4	50[e]	20[e]	30[e]	50	21	30	0	9	0	-23	-153
Total	**Home Farm 6 (grass)**				**260**	**40**	**160**	**260**	**49**	**160**					
2021	Scanlon big lot (corn)	19.5	Corn for Silage, convent	25	175[e]	0[e]	60[e]	175	56	144	0	56	84	-69	-131
2022	Scanlon big lot (corn)	19.5	Corn for Silage, convent	25	175[e]	0[e]	60[e]	159	112	288	0[g]	168	312	-13	13
2023	Scanlon big lot (corn)	19.5	Corn for Silage, convent	25	175[e]	0[e]	60[e]	136	112	288	0[g]	280	540	-13	26
Total	**Scanlon big lot (corn)**				**525**	**0**	**180**	**470**	**280**	**720**					
2021	Scanlon middle (corn)	3.2	Corn for Silage, convent	25	175[e]	0[e]	60[e]	175	46	117	0	46	57	-79	-158
2022	Scanlon middle (corn)	3.2	Corn for Silage, convent	25	175[e]	0[e]	60[e]	162	92	234	0[g]	138	231	-33	-41
2023	Scanlon middle (corn)	3.2	Corn for Silage, convent	25	175[e]	0[e]	60[e]	143	92	234	0[g]	230	405	-33	-41
Total	**Scanlon middle (corn)**				**525**	**0**	**180**	**480**	**230**	**585**					
2021	Scanlon back (corn)	6.5	Corn for Silage, convent	25	175[e]	50[e]	80[e]	175	56	144	0	6	64	-69	-131
2022	Scanlon back (corn)	6.5	Corn for Silage, convent	25	175[e]	50[e]	80[e]	159	112	288	0[g]	68	272	-13	13
2023	Scanlon back (corn)	6.5	Corn for Silage, convent	25	175[e]	50[e]	80[e]	136	112	288	0[g]	130	480	-13	26
Total	**Scanlon back (corn)**				**525**	**150**	**240**	**470**	**280**	**720**					
2021	Scanlon front (corn)	4.0	Corn for Silage, convent	25	175[e]	0[e]	80[e]	175	46	117	0	46	37	-79	-158
2022	Scanlon front (corn)	4.0	Corn for Silage, convent	25	175[e]	0[e]	80[e]	162	92	234	0[g]	138	191	-33	-41
2023	Scanlon front (corn)	4.0	Corn for Silage, convent	25	175[e]	0[e]	80[e]	143	92	234	0[g]	230	345	-33	-41
Total	**Scanlon front (corn)**				**525**	**0**	**240**	**480**	**230**	**585**					
2021	Left of Scanlon (grass)	5.2	Grass	4	175[e]	75[e]	80[e]	175	75	80	0	0	0	31	-103
2022	Left of Scanlon (grass)	5.2	Grass	4	60[e]	30[e]	80[e]	51	72	150	0[g]	42	70	59	-33
2023	Left of Scanlon (grass)	5.2	Grass	4	60[e]	30[e]	80[e]	50	72	150	12[g]	84	140	87	-33
Total	**Left of Scanlon (grass)**				**295**	**135**	**240**	**276**	**219**	**380**					
2021	EvergreenFarm 1 (grass)	13.0	Grass	4	80	0	68	80	62	94	0	62	26	18	-89
2022	EvergreenFarm 1 (grass)	13.0	Grass	4	80	0	68	76	62	94	0[g]	124	52	36	-89
2023	EvergreenFarm 1 (grass)	13.0	Grass	4	80	0	68	74	62	94	0[g]	186	78	54	-89

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
Total	**EvergreenFarm 1 (grass)**				**240**	**0**	**204**	**230**	**186**	**282**					
2021	EvergreenFarm 2 (corn)	3.4	Corn for Silage, convent	30	175[e]	0[e]	120[e]	175	46	120	0	46	0	-104	-210
2022	EvergreenFarm 2 (corn)	3.4	Corn for Silage, convent	30	175[e]	0[e]	120[e]	162	92	234	0[g]	138	114	-58	-96
2023	EvergreenFarm 2 (corn)	3.4	Corn for Silage, convent	30	175[e]	0[e]	120[e]	143	92	234	0[g]	230	228	-58	-96
Total	**EvergreenFarm 2 (corn)**				**525**	**0**	**360**	**480**	**230**	**588**					
2021	EvergreenFarm 3 (corn)	9.1	Corn for Silage, convent	30	175[e]	0[e]	120[e]	175	46	120	0	46	0	-104	-210
2022	EvergreenFarm 3 (corn)	9.1	Corn for Silage, convent	30	175[e]	0[e]	120[e]	162	92	234	0[g]	138	114	-58	-96
2023	EvergreenFarm 3 (corn)	9.1	Corn for Silage, convent	30	175[e]	0[e]	120[e]	143	92	234	0[g]	230	228	-58	-96
Total	**EvergreenFarm 3 (corn)**				**525**	**0**	**360**	**480**	**230**	**588**					
2021	EvergreenFarm 4 (corn)	2.5	Corn for Silage, convent	30	175[e]	0[e]	120[e]	175	46	120	0	46	0	-104	-210
2022	EvergreenFarm 4 (corn)	2.5	Corn for Silage, convent	30	175[e]	0[e]	120[e]	162	92	234	0[g]	138	114	-58	-96
2023	EvergreenFarm 4 (corn)	2.5	Corn for Silage, convent	30	175[e]	0[e]	120[e]	143	92	234	0[g]	230	228	-58	-96
Total	**EvergreenFarm 4 (corn)**				**525**	**0**	**360**	**480**	**230**	**588**					
2021	EvergreenFarm 5 (corn)	3.1	Corn for Silage, convent	30	175[e]	0[e]	120[e]	175	47	120	0	47	0	-103	-210
2022	EvergreenFarm 5 (corn)	3.1	Corn for Silage, convent	30	175[e]	0[e]	120[e]	162	92	233	0[g]	139	113	-58	-97
2023	EvergreenFarm 5 (corn)	3.1	Corn for Silage, convent	30	175[e]	0[e]	120[e]	143	92	233	0[g]	231	226	-58	-97
Total	**EvergreenFarm 5 (corn)**				**525**	**0**	**360**	**480**	**231**	**586**					
2021	EvergreenFarm 7 (grass)	3.0	Grass	4	80	0	68	80	62	94	0	62	26	18	-89
2022	EvergreenFarm 7 (grass)	3.0	Grass	4	80	0	68	76	62	94	0[g]	124	52	36	-89
2023	EvergreenFarm 7 (grass)	3.0	Grass	4	80	0	68	74	62	94	0[g]	186	78	54	-89
Total	**EvergreenFarm 7 (grass)**				**240**	**0**	**204**	**230**	**186**	**282**					
2021	Young Stock 1 (corn)	3.8	Corn for Silage, convent	30	160[e]	0[e]	120[e]	160	63	120	0	63	0	-87	-210
2022	Young Stock 1 (corn)	3.8	Corn for Silage, convent	30	160[e]	0[e]	120[e]	156	81	122	0[g]	144	2	-69	-208
2023	Young Stock 1 (corn)	3.8	Corn for Silage, convent	30	160[e]	0[e]	120[e]	153	82	125	0[g]	226	7	-68	-205
Total	**Young Stock 1 (corn)**				**480**	**0**	**360**	**469**	**226**	**367**					
2021	Young Stock 5 (corn)	7.0	Corn for Silage, convent	30	160[e]	0[e]	120[e]	160	62	120	0	62	0	-88	-210
2022	Young Stock 5 (corn)	7.0	Corn for Silage, convent	30	160[e]	0[e]	120[e]	156	124	188	0[g]	186	68	-26	-142
2023	Young Stock 5 (corn)	7.0	Corn for Silage, convent	30	160[e]	0[e]	120[e]	150	126	191	0[g]	312	139	-24	-139
Total	**Young Stock 5 (corn)**				**480**	**0**	**360**	**466**	**312**	**499**					

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2021	Young Stock 6 (corn)	2.4	Corn for Silage, convent	30	160[e]	0[e]	120[e]	160	63	120	0	63	0	-87	-210
2022	Young Stock 6 (corn)	2.4	Corn for Silage, convent	30	160[e]	0[e]	120[e]	156	125	190	0[g]	188	70	-25	-140
2023	Young Stock 6 (corn)	2.4	Corn for Silage, convent	30	160[e]	0[e]	120[e]	150	125	190	0[g]	313	140	-25	-140
Total	**Young Stock 6 (corn)**				**480**	**0**	**360**	**466**	**313**	**500**					
2021	Young Stock 7 (grass)	3.0	Grass	4	160[e]	120[e]	120[e]	160	120	120	0	0	0	76	-63
2022	Young Stock 7 (grass)	3.0	Grass	4	160[e]	120[e]	120[e]	151	120	150	0[g]	0	30	152	-33
2023	Young Stock 7 (grass)	3.0	Grass	4	160[e]	120[e]	120[e]	138	120	150	0[g]	0	60	228	-33
Total	**Young Stock 7 (grass)**				**480**	**360**	**360**	**449**	**360**	**420**					
2021	Young Stock 9 (grass)	6.8	Grass	4	160[e]	120[e]	120[e]	160	120	120	0	0	0	76	-63
2022	Young Stock 9 (grass)	6.8	Grass	4	160[e]	120[e]	120[e]	151	120	150	0[g]	0	30	152	-33
2023	Young Stock 9 (grass)	6.8	Grass	4	160[e]	120[e]	120[e]	138	120	150	0[g]	0	60	228	-33
Total	**Young Stock 9 (grass)**				**480**	**360**	**360**	**449**	**360**	**420**					
2021	Flora (corn)	10.0	Corn for Silage, convent	20	175[e]	0[e]	60[e]	175	62	94	0	62	34	-38	-126
2022	Flora (corn)	10.0	Corn for Silage, convent	20	175[e]	0[e]	60[e]	171	124	188	0[g]	186	162	24	-32
2023	Flora (corn)	10.0	Corn for Silage, convent	20	175[e]	0[e]	60[e]	165	125	189	0[g]	311	291	49	-31
Total	**Flora (corn)**				**525**	**0**	**180**	**511**	**311**	**471**					
2021	Keys (grass)	2.8	Grass	4	80	34	68	80	34	68	0	0	0	-10	-115
2022	Keys (grass)	2.8	Grass	4	80	34	68	80	34	68	0	0	0	-10	-115
2023	Keys (grass)	2.8	Grass	4	80	34	68	80	34	68	0	0	0	-10	-115
Total	**Keys (grass)**				**240**	**102**	**204**	**240**	**102**	**204**					
2021	Krause 1 (grass)	11.1	Grass	4	160[e]	60[e]	120[e]	160	70	180	0	10	60	26	-3
2022	Krause 1 (grass)	11.1	Grass	4	60[e]	30[e]	40[e]	64	70	180	24[g]	50	200	52	-3
2023	Krause 1 (grass)	11.1	Grass	4	60[e]	30[e]	40[e]	64	70	180	32[g]	90	340	78	-3
Total	**Krause 1 (grass)**				**280**	**120**	**200**	**288**	**210**	**540**					
2021	Krause 3 (grass)	35.5	Grass	4	160[e]	60[e]	140[e]	160	70	180	0	10	40	26	-3
2022	Krause 3 (grass)	35.5	Grass	4	60[e]	30[e]	40[e]	64	70	180	24[g]	50	180	52	-3
2023	Krause 3 (grass)	35.5	Grass	4	60[e]	30[e]	40[e]	64	70	180	32[g]	90	320	78	-3
Total	**Krause 3 (grass)**				**280**	**120**	**220**	**288**	**210**	**540**					
2021	Krause 5 (corn)	18.8	Corn for Silage, convent	25	175[e]	0[e]	60[e]	175	46	117	0	46	57	-79	-158

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2022	Krause 5 (corn)	18.8	Corn for Silage, convent	25	175[e]	0[e]	60[e]	162	92	234	0[g]	138	231	-33	-41
2023	Krause 5 (corn)	18.8	Corn for Silage, convent	25	175[e]	0[e]	60[e]	143	92	234	0[g]	230	405	-33	-41
Total	**Krause 5 (corn)**				**525**	**0**	**180**	**480**	**230**	**585**					
2021	Krause 6 (grass)	8.9	Grass	4	160[e]	60[e]	140[e]	160	70	180	0	10	40	26	-3
2022	Krause 6 (grass)	8.9	Grass	4	60[e]	30[e]	40[e]	64	70	180	24[g]	50	180	52	-3
2023	Krause 6 (grass)	8.9	Grass	4	60[e]	30[e]	40[e]	64	70	180	32[g]	90	320	78	-3
Total	**Krause 6 (grass)**				**280**	**120**	**220**	**288**	**210**	**540**					
2021	Krause 7 (corn)	9.4	Corn for Silage, convent	25	175[e]	0[e]	80[e]	175	46	117	0	46	37	-79	-158
2022	Krause 7 (corn)	9.4	Corn for Silage, convent	25	175[e]	0[e]	80[e]	162	92	233	0[g]	138	190	-33	-42
2023	Krause 7 (corn)	9.4	Corn for Silage, convent	25	175[e]	0[e]	80[e]	143	46	117	0[g]	184	227	-79	-158
Total	**Krause 7 (corn)**				**525**	**0**	**240**	**480**	**184**	**467**					
2021	Krause 8 (corn)	27.0	Corn for Silage, convent	25	175[e]	0[e]	80[e]	175	46	117	0	46	37	-79	-158
2022	Krause 8 (corn)	27.0	Corn for Silage, convent	25	175[e]	0[e]	80[e]	162	92	234	0[g]	138	191	-33	-41
2023	Krause 8 (corn)	27.0	Corn for Silage, convent	25	175[e]	0[e]	80[e]	143	92	234	0[g]	230	345	-33	-41
Total	**Krause 8 (corn)**				**525**	**0**	**240**	**480**	**230**	**585**					
2021	Krause 11 (fallo)	14.7	Fallow		0	0	0	0	0	0	0	0	0	0	0
2022	Krause 11 (fallo)	14.7	Fallow		0	0	0	0	0	0	0	0	0	0	0
2023	Krause 11 (fallo)	14.7	Fallow		0	0	0	0	0	0	0	0	0	0	0
Total	**Krause 11 (fallo)**				**0**	**0**	**0**	**0**	**0**	**0**					
2021	Pultz 1 (corn)	8.4	Corn for Silage, convent	20	175[e]	0[e]	80[e]	175	46	117	0	46	37	-54	-103
2022	Pultz 1 (corn)	8.4	Corn for Silage, convent	20	175[e]	0[e]	80[e]	162	92	235	0[g]	138	192	-8	15
2023	Pultz 1 (corn)	8.4	Corn for Silage, convent	20	175[e]	0[e]	80[e]	143	92	235	0[g]	230	347	-8	30
Total	**Pultz 1 (corn)**				**525**	**0**	**240**	**480**	**230**	**587**					
2021	Pultz 2 (grass)	15.6	Grass	4	160[e]	30[e]	140[e]	160	31	140	0	1	0	-13	-43
2022	Pultz 2 (grass)	15.6	Grass	4	60[e]	30[e]	40[e]	58	31	47	0[g]	2	7	-13	-136
2023	Pultz 2 (grass)	15.6	Grass	4	60[e]	30[e]	40[e]	57	31	47	0[g]	3	14	-13	-136
Total	**Pultz 2 (grass)**				**280**	**90**	**220**	**275**	**93**	**234**					
2021	ScanlonPumpkLot (corn)	2.8	Corn for Silage, convent	25	147	0	0	147	55	141	0	55	141	-70	-134
2022	ScanlonPumpkLot (corn)	2.8	Corn for Silage, convent	25	147	0	0	131	110	283	0[g]	165	424	-15	8

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2023	ScanlonPumpkLot (corn)	2.8	Corn for Silage, convent	25	147	0	0	109	110	283	0[g]	275	707	-15	16
Total	**ScanlonPumpkLot (corn)**				**441**	**0**	**0**	**387**	**275**	**707**					
2021	PigeonSwamp1 (corn)	11.0	Corn for Silage, convent	20	147	61	72	147	61	144	0	0	72	-39	-76
2022	PigeonSwamp1 (corn)	11.0	Corn for Silage, convent	20	147	61	72	131	112	288	0[g]	51	288	12	68
2023	PigeonSwamp1 (corn)	11.0	Corn for Silage, convent	20	147	61	72	108	112	288	0[g]	102	504	24	136
Total	**PigeonSwamp1 (corn)**				**441**	**183**	**216**	**386**	**285**	**720**					
2021	BoggLnAbovePond (grass)	9.3	Grass	4	160[e]	60[e]	140[e]	160	62	140	0	2	0	18	-43
2022	BoggLnAbovePond (grass)	9.3	Grass	4	60[e]	30[e]	40[e]	56	62	94	0[g]	34	54	36	-89
2023	BoggLnAbovePond (grass)	9.3	Grass	4	60[e]	30[e]	40[e]	54	62	94	0[g]	66	108	54	-89
Total	**BoggLnAbovePond (grass)**				**280**	**120**	**220**	**270**	**186**	**328**					
2021	BoggLn Valley1 (corn)	20.1	Corn for Silage, convent	30	175[e]	0[e]	120[e]	175	47	120	0	47	0	-103	-210
2022	BoggLn Valley1 (corn)	20.1	Corn for Silage, convent	30	175[e]	0[e]	120[e]	172	94	142	0[g]	141	22	-56	-188
2023	BoggLn Valley1 (corn)	20.1	Corn for Silage, convent	30	175[e]	0[e]	120[e]	167	94	142	0[g]	235	44	-56	-188
Total	**BoggLn Valley1 (corn)**				**525**	**0**	**360**	**514**	**235**	**404**					
2021	Bogg Ln 1 (grass)	15.7	Grass	4	160[e]	60[e]	140[e]	160	60	140	0	0	0	16	-43
2022	Bogg Ln 1 (grass)	15.7	Grass	4	60[e]	30[e]	40[e]	51	72	150	0[g]	42	110	44	-33
2023	Bogg Ln 1 (grass)	15.7	Grass	4	60[e]	30[e]	40[e]	50	72	150	12[g]	84	220	72	-33
Total	**Bogg Ln 1 (grass)**				**280**	**120**	**220**	**261**	**204**	**440**					
2021	Bogg Ln 2 (grass)	6.0	Grass	4	160[e]	60[e]	140[e]	160	60	140	0	0	0	16	-43
2022	Bogg Ln 2 (grass)	6.0	Grass	4	60[e]	30[e]	40[e]	51	72	150	0[g]	42	110	44	-33
2023	Bogg Ln 2 (grass)	6.0	Grass	4	60[e]	30[e]	40[e]	50	72	150	12[g]	84	220	72	-33
Total	**Bogg Ln 2 (grass)**				**280**	**120**	**220**	**261**	**204**	**440**					
2021	10acre Lot (corn)	6.0	Corn for Silage, convent	25	147	46	128	147	56	144	0	10	16	-69	-131
2022	10acre Lot (corn)	6.0	Corn for Silage, convent	25	147	46	128	131	112	288	0[g]	76	176	-13	13
2023	10acre Lot (corn)	6.0	Corn for Silage, convent	25	147	46	128	108	112	288	0[g]	142	336	-13	26
Total	**10acre Lot (corn)**				**441**	**138**	**384**	**386**	**280**	**720**					
2021	LowBabcockHill1 (grass)	25.2	Grass	4	160[e]	80[e]	140[e]	160	80	140	0	0	0	36	-43
2022	LowBabcockHill1 (grass)	25.2	Grass	4	60[e]	30[e]	40[e]	56	70	180	6[g]	40	140	62	-3
2023	LowBabcockHill1 (grass)	25.2	Grass	4	60[e]	30[e]	40[e]	56	70	180	20[g]	80	280	88	-3

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
Total	**LowBabcockHill1 (grass)**				**280**	**140**	**220**	**272**	**220**	**500**					
2021	LowBabcockHill2 (corn)	8.6	Corn for Silage, convent	30	160[e]	0[e]	80[e]	160	56	144	0	56	64	-94	-186
2022	LowBabcockHill2 (corn)	8.6	Corn for Silage, convent	30	160[e]	0[e]	80[e]	144	112	288	0[g]	168	272	-38	-42
2023	LowBabcockHill2 (corn)	8.6	Corn for Silage, convent	30	160[e]	0[e]	80[e]	121	112	288	0[g]	280	480	-38	-42
Total	**LowBabcockHill2 (corn)**				**480**	**0**	**240**	**425**	**280**	**720**					
2021	LowBabcockHill3 (grass)	11.6	Grass	4	160[e]	80[e]	140[e]	160	80	140	0	0	0	36	-43
2022	LowBabcockHill3 (grass)	11.6	Grass	4	60[e]	30[e]	40[e]	56	70	180	6[g]	40	140	62	-3
2023	LowBabcockHill3 (grass)	11.6	Grass	4	60[e]	30[e]	40[e]	56	70	180	20[g]	80	280	88	-3
Total	**LowBabcockHill3 (grass)**				**280**	**140**	**220**	**272**	**220**	**500**					
2021	Kick Hill Lot (corn)	19.7	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	4	60	0	4	0	-146	-270
2022	Kick Hill Lot (corn)	19.7	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	8	60	0	12	0	-142	-270
2023	Kick Hill Lot (corn)	19.7	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	8	60	0	20	0	-142	-270
Total	**Kick Hill Lot (corn)**				**525**	**0**	**180**	**525**	**20**	**180**					
2021	McCaw (corn)	11.3	Corn for Silage, convent	20	147	61	128	147	61	128	0	0	0	-39	-92
2022	McCaw (corn)	11.3	Corn for Silage, convent	20	147	61	128	147	61	128	0	0	0	-39	-92
2023	McCaw (corn)	11.3	Corn for Silage, convent	20	147	61	128	147	61	128	0	0	0	-39	-92
Total	**McCaw (corn)**				**441**	**183**	**384**	**441**	**183**	**384**					
2021	Briggs Rd (corn)	29.2	Corn for Silage, convent	30	147	0	128	147	46	128	0	46	0	-104	-202
2022	Briggs Rd (corn)	29.2	Corn for Silage, convent	30	147	0	128	134	92	234	0[g]	138	106	-58	-96
2023	Briggs Rd (corn)	29.2	Corn for Silage, convent	30	147	0	128	115	92	234	0[g]	230	212	-58	-96
Total	**Briggs Rd (corn)**				**441**	**0**	**384**	**396**	**230**	**596**					
2021	Bender 1 (grass)	17.3	Grass	4	80	0	68	80	33	85	0	33	17	-11	-98
2022	Bender 1 (grass)	17.3	Grass	4	80	0	68	71	33	85	0[g]	66	34	-11	-98
2023	Bender 1 (grass)	17.3	Grass	4	80	0	68	67	33	85	0[g]	99	51	-11	-98
Total	**Bender 1 (grass)**				**240**	**0**	**204**	**218**	**99**	**255**					
2021	Bender 2 (grass)	7.3	Grass	4	80	0	68	80	33	85	0	33	17	-11	-98
2022	Bender 2 (grass)	7.3	Grass	4	80	0	68	71	33	85	0[g]	66	34	-11	-98
2023	Bender 2 (grass)	7.3	Grass	4	80	0	68	67	33	85	0[g]	99	51	-11	-98
Total	**Bender 2 (grass)**				**240**	**0**	**204**	**218**	**99**	**255**					

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2021	Bender 7 (corn)	18.4	Corn for Silage, convent	30	147	0	0	147	46	117	0	46	117	-104	-213
2022	Bender 7 (corn)	18.4	Corn for Silage, convent	30	147	0	0	134	92	234	0[g]	138	351	-58	-96
2023	Bender 7 (corn)	18.4	Corn for Silage, convent	30	147	0	0	115	92	234	0[g]	230	585	-58	-96
Total	**Bender 7 (corn)**				**441**	**0**	**0**	**396**	**230**	**585**					
2021	Bender 9 (fallo)	1.6	Corn for Silage, convent	30	147	0	0	147	0	0	0	0	0	-150	-330
2022	Bender 9 (fallo)	1.6	Corn for Silage, convent	30	147	0	0	147	0	0	0	0	0	-150	-330
2023	Bender 9 (fallo)	1.6	Corn for Silage, convent	30	147	0	0	147	0	0	0	0	0	-150	-330
Total	**Bender 9 (fallo)**				**441**	**0**	**0**	**441**	**0**	**0**					
2021	Bender 11 (fallo)	4.6	Corn for Silage, convent	30	147	0	0	147	0	0	0	0	0	-150	-330
2022	Bender 11 (fallo)	4.6	Corn for Silage, convent	30	147	0	0	147	0	0	0	0	0	-150	-330
2023	Bender 11 (fallo)	4.6	Corn for Silage, convent	30	147	0	0	147	0	0	0	0	0	-150	-330
Total	**Bender 11 (fallo)**				**441**	**0**	**0**	**441**	**0**	**0**					
2021	Bender 19 (grass)	8.8	Grass	4	80	0	68	80	33	85	0	33	17	-11	-98
2022	Bender 19 (grass)	8.8	Grass	4	80	0	68	71	33	85	0[g]	66	34	-11	-98
2023	Bender 19 (grass)	8.8	Grass	4	80	0	68	67	33	85	0[g]	99	51	-11	-98
Total	**Bender 19 (grass)**				**240**	**0**	**204**	**218**	**99**	**255**					
2021	Stebner 1 (grass)	14.9	Grass	4	160[e]	0[e]	180[e]	160	44	180	0	44	0	0	-3
2022	Stebner 1 (grass)	14.9	Grass	4	60[e]	30[e]	40[e]	47	44	113	0[g]	58	73	0	-70
2023	Stebner 1 (grass)	14.9	Grass	4	60[e]	30[e]	40[e]	41	44	113	0[g]	72	146	0	-70
Total	**Stebner 1 (grass)**				**280**	**60**	**260**	**248**	**132**	**406**					
2021	Stebner 2 (corn)	8.2	Corn for Silage, convent	25	175[e]	0[e]	60[e]	175	46	118	0	46	58	-79	-157
2022	Stebner 2 (corn)	8.2	Corn for Silage, convent	25	175[e]	0[e]	60[e]	162	92	234	0[g]	138	232	-33	-41
2023	Stebner 2 (corn)	8.2	Corn for Silage, convent	25	175[e]	0[e]	60[e]	143	90	208	0[g]	228	380	-35	-67
Total	**Stebner 2 (corn)**				**525**	**0**	**180**	**480**	**228**	**560**					
2021	Stebner 3 (grass)	22.0	Grass	4	160[e]	0[e]	180[e]	160	44	180	0	44	0	0	-3
2022	Stebner 3 (grass)	22.0	Grass	4	60[e]	30[e]	40[e]	47	44	113	0[g]	58	73	0	-70
2023	Stebner 3 (grass)	22.0	Grass	4	60[e]	30[e]	40[e]	41	44	113	0[g]	72	146	0	-70
Total	**Stebner 3 (grass)**				**280**	**60**	**260**	**248**	**132**	**406**					
2021	Stebner 4 (grass)	11.1	Grass	4	60[e]	30[e]	40[e]	60	44	113	0	14	73	0	-70

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2022	Stebner 4 (grass)	11.1	Grass	4	60[e]	30[e]	40[e]	47	44	113	0[g]	28	146	0	-70
2023	Stebner 4 (grass)	11.1	Grass	4	60[e]	30[e]	40[e]	41	44	113	0[g]	42	219	0	-70
Total	**Stebner 4 (grass)**				**180**	**90**	**120**	**148**	**132**	**339**					
2021	Stebner 5 (corn)	6.1	Corn for Silage, convent	25	175[e]	0[e]	80[e]	175	46	118	0	46	38	-79	-157
2022	Stebner 5 (corn)	6.1	Corn for Silage, convent	25	175[e]	0[e]	80[e]	162	92	234	0[g]	138	192	-33	-41
2023	Stebner 5 (corn)	6.1	Corn for Silage, convent	25	175[e]	0[e]	80[e]	143	90	208	0[g]	228	320	-35	-67
Total	**Stebner 5 (corn)**				**525**	**0**	**240**	**480**	**228**	**560**					
2021	Xmas Tree Corn (corn)	24.2	Corn for Silage, convent	25	147	61	128	147	61	144	0	0	16	-64	-131
2022	Xmas Tree Corn (corn)	24.2	Corn for Silage, convent	25	147	61	128	131	112	288	0[g]	51	176	-13	13
2023	Xmas Tree Corn (corn)	24.2	Corn for Silage, convent	25	147	61	128	108	112	288	0[g]	102	336	-13	26
Total	**Xmas Tree Corn (corn)**				**441**	**183**	**384**	**386**	**285**	**720**					
2021	Babcock Hill 1 (grass)	12.2	Grass	4	80	34	68	80	35	90	0	1	22	-9	-93
2022	Babcock Hill 1 (grass)	12.2	Grass	4	80	34	68	70	70	180	0[g]	37	134	26	-3
2023	Babcock Hill 1 (grass)	12.2	Grass	4	80	34	68	56	70	180	0[g]	73	246	52	-3
Total	**Babcock Hill 1 (grass)**				**240**	**102**	**204**	**206**	**175**	**450**					
2021	Babcock Hill 2 (corn)	38.6	Corn for Silage, convent	30	147	0	128	147	46	128	0	46	0	-104	-202
2022	Babcock Hill 2 (corn)	38.6	Corn for Silage, convent	30	147	0	128	134	92	234	0[g]	138	106	-58	-96
2023	Babcock Hill 2 (corn)	38.6	Corn for Silage, convent	30	147	0	128	115	46	117	0[g]	184	95	-104	-213
Total	**Babcock Hill 2 (corn)**				**441**	**0**	**384**	**396**	**184**	**479**					
2021	Babcock Hill 3 (grass)	21.0	Grass	4	80	23	68	80	35	90	0	12	22	-9	-93
2022	Babcock Hill 3 (grass)	21.0	Grass	4	80	23	68	70	70	180	0[g]	59	134	26	-3
2023	Babcock Hill 3 (grass)	21.0	Grass	4	80	23	68	56	70	180	0[g]	106	246	52	-3
Total	**Babcock Hill 3 (grass)**				**240**	**69**	**204**	**206**	**175**	**450**					
2021	Babcock Hill 6 (corn)	6.9	Corn for Silage, convent	30	147	0	128	147	46	128	0	46	0	-104	-202
2022	Babcock Hill 6 (corn)	6.9	Corn for Silage, convent	30	147	0	128	134	92	233	0[g]	138	105	-58	-97
2023	Babcock Hill 6 (corn)	6.9	Corn for Silage, convent	30	147	0	128	115	92	233	0[g]	230	210	-58	-97
Total	**Babcock Hill 6 (corn)**				**441**	**0**	**384**	**396**	**230**	**594**					
2021	Babcock Hill 10 (corn)	3.0	Corn for Silage, convent	30	147	0	128	147	46	128	0	46	0	-104	-202
2022	Babcock Hill 10 (corn)	3.0	Corn for Silage, convent	30	147	0	128	134	92	234	0[g]	138	106	-58	-96

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2023	Babcock Hill 10 (corn)	3.0	Corn for Silage, convent	30	147	0	128	115	92	234	0[g]	230	212	-58	-96
Total	**Babcock Hill 10 (corn)**				**441**	**0**	**384**	**396**	**230**	**596**					
2021	Babcock Hill 11 (corn)	4.5	Corn for Silage, convent	30	147	0	72	147	46	117	0	46	45	-104	-213
2022	Babcock Hill 11 (corn)	4.5	Corn for Silage, convent	30	147	0	72	134	92	234	0[g]	138	207	-58	-96
2023	Babcock Hill 11 (corn)	4.5	Corn for Silage, convent	30	147	0	72	115	92	234	0[g]	230	369	-58	-96
Total	**Babcock Hill 11 (corn)**				**441**	**0**	**216**	**396**	**230**	**585**					
2021	Madley Rd 1 (grass)	1.5	Grass	4	160[e]	80[e]	140[e]	160	80	140	0	0	0	36	-43
2022	Madley Rd 1 (grass)	1.5	Grass	4	60[e]	30[e]	40[e]	51	72	149	0[g]	42	109	64	-34
2023	Madley Rd 1 (grass)	1.5	Grass	4	60[e]	30[e]	40[e]	51	72	149	13[g]	84	218	92	-34
Total	**Madley Rd 1 (grass)**				**280**	**140**	**220**	**262**	**224**	**438**					
2021	Madley Rd 2 (grass)	2.6	Grass	4	160[e]	80[e]	140[e]	160	80	140	0	0	0	36	-43
2022	Madley Rd 2 (grass)	2.6	Grass	4	60[e]	30[e]	40[e]	51	72	150	0[g]	42	110	64	-33
2023	Madley Rd 2 (grass)	2.6	Grass	4	60[e]	30[e]	40[e]	50	72	150	12[g]	84	220	92	-33
Total	**Madley Rd 2 (grass)**				**280**	**140**	**220**	**261**	**224**	**440**					
2021	Madley Rd 3 (grass)	6.9	Grass	4	175[e]	50[e]	80[e]	175	50	113	0	0	33	6	-70
2022	Madley Rd 3 (grass)	6.9	Grass	4	175[e]	50[e]	80[e]	162	50	113	0[g]	0	66	12	-70
2023	Madley Rd 3 (grass)	6.9	Grass	4	175[e]	50[e]	80[e]	156	50	14	0[g]	0	0	18	-169
Total	**Madley Rd 3 (grass)**				**525**	**150**	**240**	**493**	**150**	**240**					
2021	Madley Bozworth (grass)	5.0	Grass	4	175[e]	50[e]	80[e]	175	50	113	0	0	33	6	-70
2022	Madley Bozworth (grass)	5.0	Grass	4	175[e]	50[e]	80[e]	162	50	113	0[g]	0	66	12	-70
2023	Madley Bozworth (grass)	5.0	Grass	4	175[e]	50[e]	80[e]	156	50	113	0[g]	0	99	18	-70
Total	**Madley Bozworth (grass)**				**525**	**150**	**240**	**493**	**150**	**339**					
2021	Madley Rd 4 (grass)	3.0	Grass	4	160[e]	80[e]	140[e]	160	80	140	0	0	0	36	-43
2022	Madley Rd 4 (grass)	3.0	Grass	4	60[e]	30[e]	40[e]	51	72	150	0[g]	42	110	64	-33
2023	Madley Rd 4 (grass)	3.0	Grass	4	60[e]	30[e]	40[e]	50	72	150	12[g]	84	220	92	-33
Total	**Madley Rd 4 (grass)**				**280**	**140**	**220**	**261**	**224**	**440**					
2021	Waldens 1 (corn)	8.9	Corn for Silage, convent	20	175[e]	0[e]	60[e]	175	44	91	0	44	31	-56	-129
2022	Waldens 1 (corn)	8.9	Corn for Silage, convent	20	175[e]	0[e]	60[e]	164	88	182	0[g]	132	153	-12	-38
2023	Waldens 1 (corn)	8.9	Corn for Silage, convent	20	175[e]	0[e]	60[e]	148	88	182	0[g]	220	275	-12	-38

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
Total	**Waldens 1 (corn)**				**525**	**0**	**180**	**487**	**220**	**455**					
2021	Waldens 3 (corn)	9.7	Corn for Silage, convent	20	175[e]	0[e]	60[e]	175	44	91	0	44	31	-56	-129
2022	Waldens 3 (corn)	9.7	Corn for Silage, convent	20	175[e]	0[e]	60[e]	164	88	182	0[g]	132	153	-12	-38
2023	Waldens 3 (corn)	9.7	Corn for Silage, convent	20	175[e]	0[e]	60[e]	148	88	182	0[g]	220	275	-12	-38
Total	**Waldens 3 (corn)**				**525**	**0**	**180**	**487**	**220**	**455**					
2021	Waldens 6 (corn)	15.7	Corn for Silage, convent	20	175[e]	0[e]	120[e]	175	44	120	0	44	0	-56	-100
2022	Waldens 6 (corn)	15.7	Corn for Silage, convent	20	175[e]	0[e]	120[e]	164	88	182	0[g]	132	62	-12	-38
2023	Waldens 6 (corn)	15.7	Corn for Silage, convent	20	175[e]	0[e]	120[e]	148	88	182	0[g]	220	124	-12	-38
Total	**Waldens 6 (corn)**				**525**	**0**	**360**	**487**	**220**	**484**					
2021	Waldens 7 (corn)	1.1	Corn for Silage, convent	20	175[e]	0[e]	120[e]	175	44	120	0	44	0	-56	-100
2022	Waldens 7 (corn)	1.1	Corn for Silage, convent	20	175[e]	0[e]	120[e]	164	87	182	0[g]	131	62	-13	-38
2023	Waldens 7 (corn)	1.1	Corn for Silage, convent	20	175[e]	0[e]	120[e]	148	87	182	0[g]	218	124	-13	-38
Total	**Waldens 7 (corn)**				**525**	**0**	**360**	**487**	**218**	**484**					
2021	Waldens 10 (corn)	4.6	Corn for Silage, convent	20	175[e]	0[e]	80[e]	175	44	91	0	44	11	-56	-129
2022	Waldens 10 (corn)	4.6	Corn for Silage, convent	20	175[e]	0[e]	80[e]	164	88	182	0[g]	132	113	-12	-38
2023	Waldens 10 (corn)	4.6	Corn for Silage, convent	20	175[e]	0[e]	80[e]	148	88	182	0[g]	220	215	-12	-38
Total	**Waldens 10 (corn)**				**525**	**0**	**240**	**487**	**220**	**455**					
2021	Waldens 11 (corn)	1.1	Corn for Silage, convent	20	175[e]	0[e]	80[e]	175	44	91	0	44	11	-56	-129
2022	Waldens 11 (corn)	1.1	Corn for Silage, convent	20	175[e]	0[e]	80[e]	164	87	182	0[g]	131	113	-13	-38
2023	Waldens 11 (corn)	1.1	Corn for Silage, convent	20	175[e]	0[e]	80[e]	148	87	182	0[g]	218	215	-13	-38
Total	**Waldens 11 (corn)**				**525**	**0**	**240**	**487**	**218**	**455**					
2021	Waldens 12 (corn)	2.9	Corn for Silage, convent	20	175[e]	0[e]	80[e]	175	44	91	0	44	11	-56	-129
2022	Waldens 12 (corn)	2.9	Corn for Silage, convent	20	175[e]	0[e]	80[e]	164	88	182	0[g]	132	113	-12	-38
2023	Waldens 12 (corn)	2.9	Corn for Silage, convent	20	175[e]	0[e]	80[e]	148	88	182	0[g]	220	215	-12	-38
Total	**Waldens 12 (corn)**				**525**	**0**	**240**	**487**	**220**	**455**					
2021	Waldens 45 (corn)	35.0	Corn for Silage, convent	20	175[e]	0[e]	80[e]	175	44	91	0	44	11	-56	-129
2022	Waldens 45 (corn)	35.0	Corn for Silage, convent	20	175[e]	0[e]	80[e]	164	88	182	0[g]	132	113	-12	-38
2023	Waldens 45 (corn)	35.0	Corn for Silage, convent	20	175[e]	0[e]	80[e]	148	88	182	0[g]	220	215	-12	-38
Total	**Waldens 45 (corn)**				**525**	**0**	**240**	**487**	**220**	**455**					

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2021	Waldens 14 (corn)	1.0	Corn for Silage, convent	20	175[e]	0[e]	80[e]	175	44	91	0	44	11	-56	-129
2022	Waldens 14 (corn)	1.0	Corn for Silage, convent	20	175[e]	0[e]	80[e]	164	88	182	0[g]	132	113	-12	-38
2023	Waldens 14 (corn)	1.0	Corn for Silage, convent	20	175[e]	0[e]	80[e]	148	88	182	0[g]	220	215	-12	-38
Total	**Waldens 14 (corn)**				**525**	**0**	**240**	**487**	**220**	**455**					
2021	Segars 1 (corn)	5.6	Corn for Silage, convent	30	147	0	72	147	48	72	0	48	0	-102	-258
2022	Segars 1 (corn)	5.6	Corn for Silage, convent	30	147	0	72	144	94	142	0[g]	142	70	-56	-188
2023	Segars 1 (corn)	5.6	Corn for Silage, convent	30	147	0	72	139	94	142	0[g]	236	140	-56	-188
Total	**Segars 1 (corn)**				**441**	**0**	**216**	**430**	**236**	**356**					
2021	Segars 2 (corn)	9.1	Corn for Silage, convent	30	147	46	128	147	47	128	0	1	0	-103	-202
2022	Segars 2 (corn)	9.1	Corn for Silage, convent	30	147	46	128	144	94	142	0[g]	49	14	-56	-188
2023	Segars 2 (corn)	9.1	Corn for Silage, convent	30	147	46	128	139	94	142	0[g]	97	28	-56	-188
Total	**Segars 2 (corn)**				**441**	**138**	**384**	**430**	**235**	**412**					
2021	Segars 3 (grass)	2.7	Grass	4	160[e]	30[e]	140[e]	160	44	140	0	14	0	0	-43
2022	Segars 3 (grass)	2.7	Grass	4	60[e]	30[e]	40[e]	47	31	47	0[g]	15	7	-13	-136
2023	Segars 3 (grass)	2.7	Grass	4	60[e]	30[e]	40[e]	52	62	94	0[g]	47	61	18	-89
Total	**Segars 3 (grass)**				**280**	**90**	**220**	**259**	**137**	**281**					
2021	Segars 4 (grass)	5.1	Grass	4	160[e]	30[e]	140[e]	160	44	140	0	14	0	0	-43
2022	Segars 4 (grass)	5.1	Grass	4	60[e]	30[e]	40[e]	49	44	91	0[g]	28	51	0	-92
2023	Segars 4 (grass)	5.1	Grass	4	60[e]	30[e]	40[e]	44	44	91	0[g]	42	102	0	-92
Total	**Segars 4 (grass)**				**280**	**90**	**220**	**253**	**132**	**322**					
2021	Segars 6 (grass)	0.5	Grass	4	160[e]	120[e]	180[e]	160	120	180	0	0	0	76	-3
2022	Segars 6 (grass)	0.5	Grass	4	50[e]	20[e]	30[e]	48	72	152	7[g]	52	122	104	-31
2023	Segars 6 (grass)	0.5	Grass	4	50[e]	20[e]	30[e]	48	72	152	20[g]	104	244	132	-31
Total	**Segars 6 (grass)**				**260**	**160**	**240**	**256**	**264**	**484**					
2021	Segars 7 (grass)	12.0	Grass	4	160[e]	120[e]	180[e]	160	120	180	0	0	0	76	-3
2022	Segars 7 (grass)	12.0	Grass	4	60[e]	30[e]	40[e]	51	72	150	0[g]	42	110	104	-33
2023	Segars 7 (grass)	12.0	Grass	4	60[e]	30[e]	40[e]	38	36	75	0[g]	48	145	96	-108
Total	**Segars 7 (grass)**				**280**	**180**	**260**	**249**	**228**	**405**					
2021	Segars 8 (grass)	9.8	Grass	4	160[e]	120[e]	180[e]	160	120	180	0	0	0	76	-3

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2022	Segars 8 (grass)	9.8	Grass	4	60[e]	30[e]	40[e]	52	34	70	0[g]	4	30	66	-113
2023	Segars 8 (grass)	9.8	Grass	4	60[e]	30[e]	40[e]	48	34	70	0[g]	8	60	56	-113
Total	**Segars 8 (grass)**				**280**	**180**	**260**	**260**	**188**	**320**					
2021	Segars 9 (grass)	4.2	Grass	4	160[e]	0[e]	180[e]	160	44	180	0	44	0	0	-3
2022	Segars 9 (grass)	4.2	Grass	4	60[e]	20[e]	40[e]	49	44	91	0[g]	68	51	0	-92
2023	Segars 9 (grass)	4.2	Grass	4	60[e]	20[e]	40[e]	44	44	91	0[g]	92	102	0	-92
Total	**Segars 9 (grass)**				**280**	**40**	**260**	**253**	**132**	**362**					
2021	Segars 10 (grass)	1.9	Grass	4	160[e]	0[e]	140[e]	160	44	140	0	44	0	0	-43
2022	Segars 10 (grass)	1.9	Grass	4	60[e]	30[e]	40[e]	47	31	47	0[g]	45	7	-13	-136
2023	Segars 10 (grass)	1.9	Grass	4	60[e]	30[e]	40[e]	52	62	94	0[g]	77	61	18	-89
Total	**Segars 10 (grass)**				**280**	**60**	**220**	**259**	**137**	**281**					
2021	Segars 11 (grass)	6.7	Grass	4	160[e]	0[e]	120[e]	160	34	120	0	34	0	-10	-63
2022	Segars 11 (grass)	6.7	Grass	4	60[e]	30[e]	40[e]	52	34	70	0[g]	38	30	-10	-113
2023	Segars 11 (grass)	6.7	Grass	4	60[e]	30[e]	40[e]	48	34	70	0[g]	42	60	-10	-113
Total	**Segars 11 (grass)**				**280**	**60**	**200**	**260**	**102**	**260**					
2021	Segars 12 (grass)	4.0	Grass	4	160[e]	0[e]	120[e]	160	34	120	0	34	0	-10	-63
2022	Segars 12 (grass)	4.0	Grass	4	60[e]	30[e]	40[e]	52	34	70	0[g]	38	30	-10	-113
2023	Segars 12 (grass)	4.0	Grass	4	60[e]	30[e]	40[e]	48	34	70	0[g]	42	60	-10	-113
Total	**Segars 12 (grass)**				**280**	**60**	**200**	**260**	**102**	**260**					
2021	Segars 13 (grass)	6.4	Grass	4	160[e]	0[e]	120[e]	160	34	120	0	34	0	-10	-63
2022	Segars 13 (grass)	6.4	Grass	4	60[e]	30[e]	40[e]	52	34	70	0[g]	38	30	-10	-113
2023	Segars 13 (grass)	6.4	Grass	4	60[e]	30[e]	40[e]	48	0	10	0[g]	8	0	-44	-173
Total	**Segars 13 (grass)**				**280**	**60**	**200**	**260**	**68**	**200**					
2021	Carneys 1 (corn)	9.1	Corn for Silage, convent	25	175[e]	0[e]	160[e]	175	47	160	0	47	0	-78	-115
2022	Carneys 1 (corn)	9.1	Corn for Silage, convent	25	175[e]	0[e]	160[e]	172	94	160	0[g]	141	0	-31	-115
2023	Carneys 1 (corn)	9.1	Corn for Silage, convent	25	175[e]	0[e]	160[e]	167	95	160	0[g]	236	0	-30	-115
Total	**Carneys 1 (corn)**				**525**	**0**	**480**	**514**	**236**	**480**					
2021	Carneys 2 (corn)	4.3	Corn for Silage, convent	25	175[e]	0[e]	160[e]	175	47	160	0	47	0	-78	-115
2022	Carneys 2 (corn)	4.3	Corn for Silage, convent	25	175[e]	0[e]	160[e]	172	94	160	0[g]	141	0	-31	-115

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2023	Carneys 2 (corn)	4.3	Corn for Silage, convent	25	175[e]	0[e]	160[e]	167	94	160	0[g]	235	0	-31	-115
Total	**Carneys 2 (corn)**				**525**	**0**	**480**	**514**	**235**	**480**					
2021	Carneys 3 (corn)	17.7	Corn for Silage, convent	25	175[e]	0[e]	160[e]	175	47	160	0	47	0	-78	-115
2022	Carneys 3 (corn)	17.7	Corn for Silage, convent	25	175[e]	0[e]	160[e]	172	94	160	0[g]	141	0	-31	-115
2023	Carneys 3 (corn)	17.7	Corn for Silage, convent	25	175[e]	0[e]	160[e]	167	95	160	0[g]	236	0	-30	-115
Total	**Carneys 3 (corn)**				**525**	**0**	**480**	**514**	**236**	**480**					
2021	Carneys 4 (grass)	3.2	Grass	4	160[e]	120[e]	180[e]	160	120	180	0	0	0	76	-3
2022	Carneys 4 (grass)	3.2	Grass	4	60[e]	30[e]	40[e]	58	62	94	0[g]	32	54	94	-89
2023	Carneys 4 (grass)	3.2	Grass	4	60[e]	30[e]	40[e]	55	62	94	0[g]	64	108	112	-89
Total	**Carneys 4 (grass)**				**280**	**180**	**260**	**273**	**244**	**368**					
2021	Carneys 5 (grass)	5.6	Grass	4	160[e]	120[e]	180[e]	160	120	180	0	0	0	76	-3
2022	Carneys 5 (grass)	5.6	Grass	4	60[e]	30[e]	40[e]	58	62	94	0[g]	32	54	94	-89
2023	Carneys 5 (grass)	5.6	Grass	4	60[e]	30[e]	40[e]	55	62	94	0[g]	64	108	112	-89
Total	**Carneys 5 (grass)**				**280**	**180**	**260**	**273**	**244**	**368**					
2021	Synagogue Rd 3 (grass)	4.6	Grass	4	80	0	68	80	62	94	0	62	26	18	-89
2022	Synagogue Rd 3 (grass)	4.6	Grass	4	80	0	68	76	62	94	0[g]	124	52	36	-89
2023	Synagogue Rd 3 (grass)	4.6	Grass	4	80	0	68	74	62	94	0[g]	186	78	54	-89
Total	**Synagogue Rd 3 (grass)**				**240**	**0**	**204**	**230**	**186**	**282**					
2021	Synagogue Rd 4 (grass)	4.8	Grass	4	80	0	68	80	62	94	0	62	26	18	-89
2022	Synagogue Rd 4 (grass)	4.8	Grass	4	80	0	68	76	62	94	0[g]	124	52	36	-89
2023	Synagogue Rd 4 (grass)	4.8	Grass	4	80	0	68	74	62	94	0[g]	186	78	54	-89
Total	**Synagogue Rd 4 (grass)**				**240**	**0**	**204**	**230**	**186**	**282**					
2021	Synagogue Rd 5 (grass)	6.0	Grass	4	80	0	68	80	35	68	0	35	0	-9	-115
2022	Synagogue Rd 5 (grass)	6.0	Grass	4	80	0	68	78	62	94	0[g]	97	26	18	-89
2023	Synagogue Rd 5 (grass)	6.0	Grass	4	80	0	68	75	62	94	0[g]	159	52	36	-89
Total	**Synagogue Rd 5 (grass)**				**240**	**0**	**204**	**233**	**159**	**256**					
2021	Synagogue Rd 6 (grass)	4.1	Grass	4	80	0	68	80	62	94	0	62	26	18	-89
2022	Synagogue Rd 6 (grass)	4.1	Grass	4	80	0	68	76	62	94	0[g]	124	52	36	-89
2023	Synagogue Rd 6 (grass)	4.1	Grass	4	80	0	68	74	62	94	0[g]	186	78	54	-89

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
Total	**Synagogue Rd 6 (grass)**				**240**	**0**	**204**	**230**	**186**	**282**					
2021	Synagogue Rd 9 (grass)	0.8	Grass	4	80	0	68	80	62	95	0	62	27	18	-88
2022	Synagogue Rd 9 (grass)	0.8	Grass	4	80	0	68	76	62	95	0[g]	124	54	36	-88
2023	Synagogue Rd 9 (grass)	0.8	Grass	4	80	0	68	74	62	95	0[g]	186	81	54	-88
Total	**Synagogue Rd 9 (grass)**				**240**	**0**	**204**	**230**	**186**	**285**					
2021	M City Rd 1 (corn)	4.3	Corn for Silage, convent	20	147	0	128	147	47	128	0	47	0	-53	-92
2022	M City Rd 1 (corn)	4.3	Corn for Silage, convent	20	147	0	128	144	94	142	0[g]	141	14	-6	-78
2023	M City Rd 1 (corn)	4.3	Corn for Silage, convent	20	147	0	128	139	95	143	0[g]	236	29	-5	-77
Total	**M City Rd 1 (corn)**				**441**	**0**	**384**	**430**	**236**	**413**					
2021	M City Rd 2 (corn)	12.5	Corn for Silage, convent	20	147	0	72	147	47	72	0	47	0	-53	-148
2022	M City Rd 2 (corn)	12.5	Corn for Silage, convent	20	147	0	72	144	94	142	0[g]	141	70	-6	-78
2023	M City Rd 2 (corn)	12.5	Corn for Silage, convent	20	147	0	72	139	94	143	0[g]	235	141	-6	-77
Total	**M City Rd 2 (corn)**				**441**	**0**	**216**	**430**	**235**	**357**					
2021	M City Rd 3 (corn)	2.3	Corn for Silage, convent	20	147	0	72	147	47	72	0	47	0	-53	-148
2022	M City Rd 3 (corn)	2.3	Corn for Silage, convent	20	147	0	72	144	94	142	0[g]	141	70	-6	-78
2023	M City Rd 3 (corn)	2.3	Corn for Silage, convent	20	147	0	72	139	94	142	0[g]	235	140	-6	-78
Total	**M City Rd 3 (corn)**				**441**	**0**	**216**	**430**	**235**	**356**					
2021	Winery (grass)	27.0	Grass	4	160[e]	0[e]	180[e]	160	31	180	0	31	0	-13	-3
2022	Winery (grass)	27.0	Grass	4	60[e]	20[e]	40[e]	58	31	47	0[g]	42	7	-13	-136
2023	Winery (grass)	27.0	Grass	4	60[e]	20[e]	40[e]	57	31	47	0[g]	53	14	-13	-136
Total	**Winery (grass)**				**280**	**40**	**260**	**275**	**93**	**274**					
2021	Randazzo (grass)	14.4	Grass	4	160[e]	60[e]	140[e]	160	60	140	0	0	0	16	-43
2022	Randazzo (grass)	14.4	Grass	4	60[e]	30[e]	40[e]	58	31	47	0[g]	1	7	3	-136
2023	Randazzo (grass)	14.4	Grass	4	60[e]	30[e]	40[e]	57	31	47	0[g]	2	14	-10	-136
Total	**Randazzo (grass)**				**280**	**120**	**220**	**275**	**122**	**234**					
2021	Chappel Rd Corn (corn)	12.0	Corn for Silage, convent	20	147	46	128	147	56	144	0	10	16	-44	-76
2022	Chappel Rd Corn (corn)	12.0	Corn for Silage, convent	20	147	46	128	131	112	288	0[g]	76	176	12	68
2023	Chappel Rd Corn (corn)	12.0	Corn for Silage, convent	20	147	46	128	108	112	288	0[g]	142	336	24	136
Total	**Chappel Rd Corn (corn)**				**441**	**138**	**384**	**386**	**280**	**720**					

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2021	Chappel Rd Gras (grass)	5.0	Grass	4	80	0	31	80	44	113	0	44	82	0	-70
2022	Chappel Rd Gras (grass)	5.0	Grass	4	80	0	31	67	44	113	0[g]	88	164	0	-70
2023	Chappel Rd Gras (grass)	5.0	Grass	4	80	0	31	61	44	113	0[g]	132	246	0	-70
Total	**Chappel Rd Gras (grass)**				**240**	**0**	**93**	**208**	**132**	**339**					
2021	Xmas Tree Grass (grass)	20.0	Grass	4	80	0	31	80	44	113	0	44	82	0	-70
2022	Xmas Tree Grass (grass)	20.0	Grass	4	80	0	31	67	44	113	0[g]	88	164	0	-70
2023	Xmas Tree Grass (grass)	20.0	Grass	4	80	0	31	61	44	113	0[g]	132	246	0	-70
Total	**Xmas Tree Grass (grass)**				**240**	**0**	**93**	**208**	**132**	**339**					

Field Nutrient Balance (Non-manure-spreadable Area)

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2021	Strauss 4 (grass)	0.3	Grass	4	160[e]	0[e]	120[e]	148	0	26	-12	0	-94	-44	-157
2022	Strauss 4 (grass)	0.3	Grass	4	50[e]	20[e]	30[e]	34	0	0	-16	-20	-30	-44	-183
2023	Strauss 4 (grass)	0.3	Grass	4	50[e]	20[e]	30[e]	32	0	0	-18	-20	-30	-44	-183
Total	**Strauss 4 (grass)**				**260**	**40**	**180**	**214**	**0**	**26**					
2021	Strauss 12 (grass)	0.2	Grass	4	160[e]	0[e]	120[e]	148	0	26	-12	0	-94	-44	-157
2022	Strauss 12 (grass)	0.2	Grass	4	50[e]	20[e]	30[e]	34	0	0	-16	-20	-30	-44	-183
2023	Strauss 12 (grass)	0.2	Grass	4	50[e]	20[e]	30[e]	32	0	0	-18	-20	-30	-44	-183
Total	**Strauss 12 (grass)**				**260**	**40**	**180**	**214**	**0**	**26**					
Total	**Strauss 13 (corn)**				**441**	**0**	**0**	**387**	**0**	**0**					
2021	Bender/V.Hill 4 (grass)	0.4	Grass	4	160[e]	60[e]	120[e]	96	0	0	-64	-60	-120	-44	-183
2022	Bender/V.Hill 4 (grass)	0.4	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
2023	Bender/V.Hill 4 (grass)	0.4	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
Total	**Bender/V.Hill 4 (grass)**				**280**	**120**	**200**	**96**	**0**	**0**					
2021	Bender/V.Hill 6 (corn)	0.7	Corn for Silage, convent	20	147	0	128	105	0	11	-42	0	-117	-100	-209
2022	Bender/V.Hill 6 (corn)	0.7	Corn for Silage, convent	20	147	0	128	54	0	0	-93	0	-128	-100	-220
2023	Bender/V.Hill 6 (corn)	0.7	Corn for Silage, convent	20	147	0	128	35	0	0	-112	0	-128	-100	-220

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
Total	**Bender/V.Hill 6 (corn)**				**441**	**0**	**384**	**194**	**0**	**11**					
2021	Scanlon back (corn)	0.5	Corn for Silage, convent	25	175[e]	50[e]	80[e]	124	0	0	-51	-50	-80	-125	-275
2022	Scanlon back (corn)	0.5	Corn for Silage, convent	25	175[e]	50[e]	80[e]	61	0	0	-114	-50	-80	-125	-275
2023	Scanlon back (corn)	0.5	Corn for Silage, convent	25	175[e]	50[e]	80[e]	38	0	0	-137	-50	-80	-125	-275
Total	**Scanlon back (corn)**				**525**	**150**	**240**	**223**	**0**	**0**					
2021	Scanlon front (corn)	0.5	Corn for Silage, convent	25	175[e]	0[e]	80[e]	133	0	0	-42	0	-80	-125	-275
2022	Scanlon front (corn)	0.5	Corn for Silage, convent	25	175[e]	0[e]	80[e]	82	0	0	-93	0	-80	-125	-275
2023	Scanlon front (corn)	0.5	Corn for Silage, convent	25	175[e]	0[e]	80[e]	63	0	0	-112	0	-80	-125	-275
Total	**Scanlon front (corn)**				**525**	**0**	**240**	**278**	**0**	**0**					
2021	Left of Scanlon (grass)	0.1	Grass	4	175[e]	75[e]	80[e]	146	39	5	-29	-36	-75	-5	-178
2022	Left of Scanlon (grass)	0.1	Grass	4	60[e]	30[e]	80[e]	1	0	0	-59	-30	-80	-44	-183
2023	Left of Scanlon (grass)	0.1	Grass	4	60[e]	30[e]	80[e]	0	0	0	-60	-30	-80	-44	-183
Total	**Left of Scanlon (grass)**				**295**	**135**	**240**	**147**	**39**	**5**					
2021	EvergreenFarm 1 (grass)	1.5	Grass	4	80	0	68	68	0	0	-12	0	-68	-44	-183
2022	EvergreenFarm 1 (grass)	1.5	Grass	4	80	0	68	64	0	0	-16	0	-68	-44	-183
2023	EvergreenFarm 1 (grass)	1.5	Grass	4	80	0	68	62	0	0	-18	0	-68	-44	-183
Total	**EvergreenFarm 1 (grass)**				**240**	**0**	**204**	**194**	**0**	**0**					
2021	EvergreenFarm 2 (corn)	1.2	Corn for Silage, convent	30	175[e]	0[e]	120[e]	133	0	3	-42	0	-117	-150	-327
2022	EvergreenFarm 2 (corn)	1.2	Corn for Silage, convent	30	175[e]	0[e]	120[e]	82	0	0	-93	0	-120	-150	-330
2023	EvergreenFarm 2 (corn)	1.2	Corn for Silage, convent	30	175[e]	0[e]	120[e]	63	0	0	-112	0	-120	-150	-330
Total	**EvergreenFarm 2 (corn)**				**525**	**0**	**360**	**278**	**0**	**3**					
2021	EvergreenFarm 3 (corn)	2.5	Corn for Silage, convent	30	175[e]	0[e]	120[e]	133	0	3	-42	0	-117	-150	-327
2022	EvergreenFarm 3 (corn)	2.5	Corn for Silage, convent	30	175[e]	0[e]	120[e]	82	0	0	-93	0	-120	-150	-330
2023	EvergreenFarm 3 (corn)	2.5	Corn for Silage, convent	30	175[e]	0[e]	120[e]	63	0	0	-112	0	-120	-150	-330
Total	**EvergreenFarm 3 (corn)**				**525**	**0**	**360**	**278**	**0**	**3**					
2021	EvergreenFarm 4 (corn)	0.3	Corn for Silage, convent	30	175[e]	0[e]	120[e]	133	0	3	-42	0	-117	-150	-327
2022	EvergreenFarm 4 (corn)	0.3	Corn for Silage, convent	30	175[e]	0[e]	120[e]	82	0	0	-93	0	-120	-150	-330
2023	EvergreenFarm 4 (corn)	0.3	Corn for Silage, convent	30	175[e]	0[e]	120[e]	63	0	0	-112	0	-120	-150	-330
Total	**EvergreenFarm 4 (corn)**				**525**	**0**	**360**	**278**	**0**	**3**					

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2021	Young Stock 5 (corn)	0.4	Corn for Silage, convent	30	160[e]	0[e]	120[e]	148	0	26	-12	0	-94	-150	-304
2022	Young Stock 5 (corn)	0.4	Corn for Silage, convent	30	160[e]	0[e]	120[e]	134	0	0	-26	0	-120	-150	-330
2023	Young Stock 5 (corn)	0.4	Corn for Silage, convent	30	160[e]	0[e]	120[e]	128	0	0	-32	0	-120	-150	-330
Total	**Young Stock 5 (corn)**				**480**	**0**	**360**	**410**	**0**	**26**					
2021	Young Stock 7 (grass)	0.2	Grass	4	160[e]	120[e]	120[e]	131	84	45	-29	-36	-75	40	-138
2022	Young Stock 7 (grass)	0.2	Grass	4	160[e]	120[e]	120[e]	101	48	0	-59	-72	-120	44	-183
2023	Young Stock 7 (grass)	0.2	Grass	4	160[e]	120[e]	120[e]	88	48	0	-72	-72	-120	48	-183
Total	**Young Stock 7 (grass)**				**480**	**360**	**360**	**320**	**180**	**45**					
2021	Keys (grass)	0.6	Grass	4	80	34	68	80	22	56	0	-12	-12	-22	-127
2022	Keys (grass)	0.6	Grass	4	80	34	68	80	18	52	0	-16	-16	-26	-131
2023	Keys (grass)	0.6	Grass	4	80	34	68	80	17	51	0	-17	-17	-27	-132
Total	**Keys (grass)**				**240**	**102**	**204**	**240**	**57**	**159**					
2021	Krause 1 (grass)	0.2	Grass	4	160[e]	60[e]	120[e]	96	0	0	-64	-60	-120	-44	-183
2022	Krause 1 (grass)	0.2	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
2023	Krause 1 (grass)	0.2	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
Total	**Krause 1 (grass)**				**280**	**120**	**200**	**96**	**0**	**0**					
2021	Krause 3 (grass)	1.1	Grass	4	160[e]	60[e]	140[e]	96	0	0	-64	-60	-140	-44	-183
2022	Krause 3 (grass)	1.1	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
2023	Krause 3 (grass)	1.1	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
Total	**Krause 3 (grass)**				**280**	**120**	**220**	**96**	**0**	**0**					
2021	BoggLn Valley1 (corn)	1.4	Corn for Silage, convent	30	175[e]	0[e]	120[e]	166	0	49	-9	0	-71	-150	-281
2022	BoggLn Valley1 (corn)	1.4	Corn for Silage, convent	30	175[e]	0[e]	120[e]	155	0	0	-20	0	-120	-150	-330
2023	BoggLn Valley1 (corn)	1.4	Corn for Silage, convent	30	175[e]	0[e]	120[e]	150	0	0	-25	0	-120	-150	-330
Total	**BoggLn Valley1 (corn)**				**525**	**0**	**360**	**471**	**0**	**49**					
2021	Bogg Ln 1 (grass)	1.3	Grass	4	160[e]	60[e]	140[e]	131	24	65	-29	-36	-75	-20	-118
2022	Bogg Ln 1 (grass)	1.3	Grass	4	60[e]	30[e]	40[e]	1	0	0	-59	-30	-40	-44	-183
2023	Bogg Ln 1 (grass)	1.3	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
Total	**Bogg Ln 1 (grass)**				**280**	**120**	**220**	**132**	**24**	**65**					
2021	Bogg Ln 2 (grass)	0.1	Grass	4	160[e]	60[e]	140[e]	131	24	65	-29	-36	-75	-20	-118

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2022	Bogg Ln 2 (grass)	0.1	Grass	4	60[e]	30[e]	40[e]	1	0	0	-59	-30	-40	-44	-183
2023	Bogg Ln 2 (grass)	0.1	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
Total	**Bogg Ln 2 (grass)**				**280**	**120**	**220**	**132**	**24**	**65**					
2021	10acre Lot (corn)	3.5	Corn for Silage, convent	25	147	46	128	96	0	0	-51	-46	-128	-125	-275
2022	10acre Lot (corn)	3.5	Corn for Silage, convent	25	147	46	128	33	0	0	-114	-46	-128	-125	-275
2023	10acre Lot (corn)	3.5	Corn for Silage, convent	25	147	46	128	10	0	0	-137	-46	-128	-125	-275
Total	**10acre Lot (corn)**				**441**	**138**	**384**	**139**	**0**	**0**					
2021	LowBabcockHill1 (grass)	0.1	Grass	4	160[e]	80[e]	140[e]	128	45	50	-32	-35	-90	1	-133
2022	LowBabcockHill1 (grass)	0.1	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-43	-183
2023	LowBabcockHill1 (grass)	0.1	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
Total	**LowBabcockHill1 (grass)**				**280**	**140**	**220**	**128**	**45**	**50**					
2021	LowBabcockHill2 (corn)	2.1	Corn for Silage, convent	30	160[e]	0[e]	80[e]	109	0	0	-51	0	-80	-150	-330
2022	LowBabcockHill2 (corn)	2.1	Corn for Silage, convent	30	160[e]	0[e]	80[e]	46	0	0	-114	0	-80	-150	-330
2023	LowBabcockHill2 (corn)	2.1	Corn for Silage, convent	30	160[e]	0[e]	80[e]	23	0	0	-137	0	-80	-150	-330
Total	**LowBabcockHill2 (corn)**				**480**	**0**	**240**	**178**	**0**	**0**					
2021	Kick Hill Lot (corn)	0.1	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	0	56	0	0	-4	-150	-274
2022	Kick Hill Lot (corn)	0.1	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	0	52	0	0	-8	-150	-278
2023	Kick Hill Lot (corn)	0.1	Corn for Silage, convent	30	175[e]	0[e]	60[e]	175	0	52	0	0	-8	-150	-278
Total	**Kick Hill Lot (corn)**				**525**	**0**	**180**	**525**	**0**	**160**					
2021	Bender 1 (grass)	0.1	Grass	4	80	0	68	50	0	0	-30	0	-68	-44	-183
2022	Bender 1 (grass)	0.1	Grass	4	80	0	68	41	0	0	-39	0	-68	-44	-183
2023	Bender 1 (grass)	0.1	Grass	4	80	0	68	37	0	0	-43	0	-68	-44	-183
Total	**Bender 1 (grass)**				**240**	**0**	**204**	**128**	**0**	**0**					
2021	Bender 2 (grass)	0.3	Grass	4	80	0	68	50	0	0	-30	0	-68	-44	-183
2022	Bender 2 (grass)	0.3	Grass	4	80	0	68	41	0	0	-39	0	-68	-44	-183
2023	Bender 2 (grass)	0.3	Grass	4	80	0	68	37	0	0	-43	0	-68	-44	-183
Total	**Bender 2 (grass)**				**240**	**0**	**204**	**128**	**0**	**0**					
2021	Babcock Hill 1 (grass)	3.8	Grass	4	80	34	68	48	0	0	-32	-34	-68	-44	-183
2022	Babcock Hill 1 (grass)	3.8	Grass	4	80	34	68	14	0	0	-66	-34	-68	-44	-183

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2023	Babcock Hill 1 (grass)	3.8	Grass	4	80	34	68	0	0	0	-80	-34	-68	-44	-183
Total	**Babcock Hill 1 (grass)**				**240**	**102**	**204**	**62**	**0**	**0**					
2021	Babcock Hill 3 (grass)	0.3	Grass	4	80	23	68	48	0	0	-32	-23	-68	-44	-183
2022	Babcock Hill 3 (grass)	0.3	Grass	4	80	23	68	14	0	0	-66	-23	-68	-44	-183
2023	Babcock Hill 3 (grass)	0.3	Grass	4	80	23	68	0	0	0	-80	-23	-68	-44	-183
Total	**Babcock Hill 3 (grass)**				**240**	**69**	**204**	**62**	**0**	**0**					
2021	Babcock Hill 10 (corn)	0.4	Corn for Silage, convent	30	147	0	128	105	0	11	-42	0	-117	-150	-319
2022	Babcock Hill 10 (corn)	0.4	Corn for Silage, convent	30	147	0	128	54	0	0	-93	0	-128	-150	-330
2023	Babcock Hill 10 (corn)	0.4	Corn for Silage, convent	30	147	0	128	35	0	0	-112	0	-128	-150	-330
Total	**Babcock Hill 10 (corn)**				**441**	**0**	**384**	**194**	**0**	**11**					
2021	Babcock Hill 11 (corn)	1.0	Corn for Silage, convent	30	147	0	72	105	0	0	-42	0	-72	-150	-330
2022	Babcock Hill 11 (corn)	1.0	Corn for Silage, convent	30	147	0	72	54	0	0	-93	0	-72	-150	-330
2023	Babcock Hill 11 (corn)	1.0	Corn for Silage, convent	30	147	0	72	35	0	0	-112	0	-72	-150	-330
Total	**Babcock Hill 11 (corn)**				**441**	**0**	**216**	**194**	**0**	**0**					
2021	Madley Rd 1 (grass)	0.4	Grass	4	160[e]	80[e]	140[e]	131	44	65	-29	-36	-75	0	-118
2022	Madley Rd 1 (grass)	0.4	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
2023	Madley Rd 1 (grass)	0.4	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
Total	**Madley Rd 1 (grass)**				**280**	**140**	**220**	**131**	**44**	**65**					
2021	Madley Rd 4 (grass)	1.0	Grass	4	160[e]	80[e]	140[e]	131	44	65	-29	-36	-75	0	-118
2022	Madley Rd 4 (grass)	1.0	Grass	4	60[e]	30[e]	40[e]	1	0	0	-59	-30	-40	-44	-183
2023	Madley Rd 4 (grass)	1.0	Grass	4	60[e]	30[e]	40[e]	0	0	0	-60	-30	-40	-44	-183
Total	**Madley Rd 4 (grass)**				**280**	**140**	**220**	**132**	**44**	**65**					
2021	Waldens 6 (corn)	0.2	Corn for Silage, convent	20	175[e]	0[e]	120[e]	140	0	29	-35	0	-91	-100	-191
2022	Waldens 6 (corn)	0.2	Corn for Silage, convent	20	175[e]	0[e]	120[e]	97	0	0	-78	0	-120	-100	-220
2023	Waldens 6 (corn)	0.2	Corn for Silage, convent	20	175[e]	0[e]	120[e]	81	0	0	-94	0	-120	-100	-220
Total	**Waldens 6 (corn)**				**525**	**0**	**360**	**318**	**0**	**29**					
2021	Segars 1 (corn)	0.3	Corn for Silage, convent	30	147	0	72	138	0	0	-9	0	-72	-150	-330
2022	Segars 1 (corn)	0.3	Corn for Silage, convent	30	147	0	72	127	0	0	-20	0	-72	-150	-330
2023	Segars 1 (corn)	0.3	Corn for Silage, convent	30	147	0	72	122	0	0	-25	0	-72	-150	-330

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
Total	**Segars 1 (corn)**				**441**	**0**	**216**	**387**	**0**	**0**					
2021	Segars 3 (grass)	0.9	Grass	4	160[e]	30[e]	140[e]	120	0	27	-40	-30	-113	-44	-156
2022	Segars 3 (grass)	0.9	Grass	4	60[e]	30[e]	40[e]	41	0	0	-19	-30	-40	-44	-183
2023	Segars 3 (grass)	0.9	Grass	4	60[e]	30[e]	40[e]	41	0	0	-19	-30	-40	-44	-183
Total	**Segars 3 (grass)**				**280**	**90**	**220**	**202**	**0**	**27**					
2021	Segars 6 (grass)	1.3	Grass	4	160[e]	120[e]	180[e]	132	84	104	-28	-36	-76	40	-79
2022	Segars 6 (grass)	1.3	Grass	4	50[e]	20[e]	30[e]	0	0	0	-50	-20	-30	-4	-183
2023	Segars 6 (grass)	1.3	Grass	4	50[e]	20[e]	30[e]	0	0	0	-50	-20	-30	-44	-183
Total	**Segars 6 (grass)**				**260**	**160**	**240**	**132**	**84**	**104**					
2021	Segars 7 (grass)	0.1	Grass	4	160[e]	120[e]	180[e]	131	84	105	-29	-36	-75	40	-78
2022	Segars 7 (grass)	0.1	Grass	4	60[e]	30[e]	40[e]	1	0	0	-59	-30	-40	-4	-183
2023	Segars 7 (grass)	0.1	Grass	4	60[e]	30[e]	40[e]	9	0	0	-51	-30	-40	-44	-183
Total	**Segars 7 (grass)**				**280**	**180**	**260**	**141**	**84**	**105**					
2021	Segars 8 (grass)	0.3	Grass	4	160[e]	120[e]	180[e]	133	86	110	-27	-34	-70	42	-73
2022	Segars 8 (grass)	0.3	Grass	4	60[e]	30[e]	40[e]	25	0	0	-35	-30	-40	-2	-183
2023	Segars 8 (grass)	0.3	Grass	4	60[e]	30[e]	40[e]	21	0	0	-39	-30	-40	-44	-183
Total	**Segars 8 (grass)**				**280**	**180**	**260**	**179**	**86**	**110**					
2021	Segars 10 (grass)	0.2	Grass	4	160[e]	0[e]	140[e]	120	0	27	-40	0	-113	-44	-156
2022	Segars 10 (grass)	0.2	Grass	4	60[e]	30[e]	40[e]	41	0	0	-19	-30	-40	-44	-183
2023	Segars 10 (grass)	0.2	Grass	4	60[e]	30[e]	40[e]	41	0	0	-19	-30	-40	-44	-183
Total	**Segars 10 (grass)**				**280**	**60**	**220**	**202**	**0**	**27**					
2021	Segars 11 (grass)	0.2	Grass	4	160[e]	0[e]	120[e]	133	0	50	-27	0	-70	-44	-133
2022	Segars 11 (grass)	0.2	Grass	4	60[e]	30[e]	40[e]	25	0	0	-35	-30	-40	-44	-183
2023	Segars 11 (grass)	0.2	Grass	4	60[e]	30[e]	40[e]	21	0	0	-39	-30	-40	-44	-183
Total	**Segars 11 (grass)**				**280**	**60**	**200**	**179**	**0**	**50**					
2021	Segars 12 (grass)	1.3	Grass	4	160[e]	0[e]	120[e]	133	0	50	-27	0	-70	-44	-133
2022	Segars 12 (grass)	1.3	Grass	4	60[e]	30[e]	40[e]	25	0	0	-35	-30	-40	-44	-183
2023	Segars 12 (grass)	1.3	Grass	4	60[e]	30[e]	40[e]	21	0	0	-39	-30	-40	-44	-183
Total	**Segars 12 (grass)**				**280**	**60**	**200**	**179**	**0**	**50**					

Year	Field	Size	Crop	Yield Goal	Fertilizer Recs[a]			Nutrients Applied[b]			Balance After Recs[c]			Balance After Removal[d]	
		ac		per ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac
2021	Segars 13 (grass)	2.0	Grass	4	160[e]	0[e]	120[e]	133	0	50	-27	0	-70	-44	-133
2022	Segars 13 (grass)	2.0	Grass	4	60[e]	30[e]	40[e]	25	0	0	-35	-30	-40	-44	-183
2023	Segars 13 (grass)	2.0	Grass	4	60[e]	30[e]	40[e]	48	0	10	-12	-30	-30	-44	-173
Total	**Segars 13 (grass)**				**280**	**60**	**200**	**206**	**0**	**60**					
2021	Carneys 3 (corn)	0.1	Corn for Silage, convent	25	175[e]	0[e]	160[e]	166	0	89	-9	0	-71	-125	-186
2022	Carneys 3 (corn)	0.1	Corn for Silage, convent	25	175[e]	0[e]	160[e]	155	0	18	-20	0	-142	-125	-257
2023	Carneys 3 (corn)	0.1	Corn for Silage, convent	25	175[e]	0[e]	160[e]	150	0	17	-25	0	-143	-125	-258
Total	**Carneys 3 (corn)**				**525**	**0**	**480**	**471**	**0**	**124**					
2021	Carneys 5 (grass)	0.8	Grass	4	160[e]	120[e]	180[e]	154	89	133	-6	-31	-47	45	-50
2022	Carneys 5 (grass)	0.8	Grass	4	60[e]	30[e]	40[e]	47	0	0	-13	-30	-40	1	-183
2023	Carneys 5 (grass)	0.8	Grass	4	60[e]	30[e]	40[e]	44	0	0	-16	-30	-40	-43	-183
Total	**Carneys 5 (grass)**				**280**	**180**	**260**	**245**	**89**	**133**					
2021	Synagogue Rd 5 (grass)	0.3	Grass	4	80	0	68	73	0	15	-7	0	-53	-44	-168
2022	Synagogue Rd 5 (grass)	0.3	Grass	4	80	0	68	66	0	0	-14	0	-68	-44	-183
2023	Synagogue Rd 5 (grass)	0.3	Grass	4	80	0	68	63	0	0	-17	0	-68	-44	-183
Total	**Synagogue Rd 5 (grass)**				**240**	**0**	**204**	**202**	**0**	**15**					
2021	Synagogue Rd 9 (grass)	1.8	Grass	4	80	0	68	68	0	0	-12	0	-68	-44	-183
2022	Synagogue Rd 9 (grass)	1.8	Grass	4	80	0	68	64	0	0	-16	0	-68	-44	-183
2023	Synagogue Rd 9 (grass)	1.8	Grass	4	80	0	68	62	0	0	-18	0	-68	-44	-183
Total	**Synagogue Rd 9 (grass)**				**240**	**0**	**204**	**194**	**0**	**0**					
2021	M City Rd 1 (corn)	0.1	Corn for Silage, convent	20	147	0	128	138	0	57	-9	0	-71	-100	-163
2022	M City Rd 1 (corn)	0.1	Corn for Silage, convent	20	147	0	128	127	0	0	-20	0	-128	-100	-220
2023	M City Rd 1 (corn)	0.1	Corn for Silage, convent	20	147	0	128	122	0	0	-25	0	-128	-100	-220
Total	**M City Rd 1 (corn)**				**441**	**0**	**384**	**387**	**0**	**57**					
2021	M City Rd 2 (corn)	0.2	Corn for Silage, convent	20	147	0	72	138	0	1	-9	0	-71	-100	-219
2022	M City Rd 2 (corn)	0.2	Corn for Silage, convent	20	147	0	72	127	0	0	-20	0	-72	-100	-220
2023	M City Rd 2 (corn)	0.2	Corn for Silage, convent	20	147	0	72	122	0	0	-25	0	-72	-100	-220
Total	**M City Rd 2 (corn)**				**441**	**0**	**216**	**387**	**0**	**1**					

[a] Fertilizer Recs are the crop fertilizer recommendations. The N rec accounts for any N credit from previous legume crop.

[b] Nutrients Applied are the nutrients expected to be available to the crop from that year's manure applications plus nutrients from that year's commercial fertilizer applications and nitrates from irrigation water. With a double-crop year, the total nutrients applied for both crops and the year's balances are listed on the second crop's line.

[c] For N, Nutrients Applied minus Fertilizer Recs for indicated crop year. Also includes amount of residual N expected to become available that year from prior years' manure applications. For P_2O_5 and K_2O, Nutrients Applied minus Fertilizer Recs *through* the indicated crop year, with positive balances carried forward to subsequent years. Negative values indicate a potential need to apply additional nutrients.

[d] Nutrients Applied minus amount removed by harvested portion of crop through the indicated year. Positive balances are carried forward to subsequent years.

[e] Custom fertilizer recommendation.

[f] Legume crop is assumed to utilize some or all of the supplied N.

[g] Includes residual N expected to become available that year from prior years' manure applications.

6.9. Manure Inventory Annual Summary (Optional)

Manure Source	Plan Period	On Hand at Start of Period	Total Generated	Total Imported	Total Trans-ferred In	Total Applied	Total Exported	Total Trans-ferred Out	On Hand at End of Period	Units
Milkers - Lagoon	Nov '20 - Oct '21	0	0	0	1,600,000	887,000	713,000	0	0	gal
Milker - Slurrystore	Nov '20 - Oct '21	0	7,954,000	0	0	3,684,067	554,003	3,715,530	400	gal
Heifer - Slurry tank	Nov '20 - Oct '21	0	1,640,000	0	0	0	0	1,640,400	-400	gal
Milker - Solids Shed	Nov '20 - Oct '21	0	6,752	0	0	0	600	6,150	2	tons
Heifer - Solids Shed	Nov '20 - Oct '21	0	838	0	0	0	0	770	68	tons
Briggs Road Lagoon	Nov '20 - Oct '21	0	0	0	2,115,530	2,002,400	0	0	113,130	gal
Walden Lagoon	Nov '20 - Oct '21	0	0	0	1,640,400	1,550,830	0	0	89,570	gal
Compost Building	Nov '20 - Oct '21	0	0	0	6,920	6,920	0	0	0	tons
Silage Leachate Pond	Nov '20 - Oct '21	0	2,531,000	0	0	2,305,280	0	0	225,720	gal
All Sources (liquid)	**Nov '20 - Oct '21**	**0**	**12,125,000**	**0**	**5,355,930**	**10,429,577**	**1,267,003**	**5,355,930**	**428,420**	**gal**
All Sources (solid)	**Nov '20 - Oct '21**	**0**	**7,590**	**0**	**6,920**	**6,920**	**600**	**6,920**	**70**	**tons**
Milkers - Lagoon	Nov '21 - Oct '22	0	0	0	1,700,000	886,550	813,450	0	0	gal
Milker - Slurrystore	Nov '21 - Oct '22	400	7,954,000	0	0	3,561,162	803,528	3,588,910	800	gal
Heifer - Slurry tank	Nov '21 - Oct '22	-400	1,640,000	0	0	0	0	1,640,400	-800	gal
Milker - Solids Shed	Nov '21 - Oct '22	2	6,752	0	0	0	600	6,150	4	tons
Heifer - Solids Shed	Nov '21 - Oct '22	68	838	0	0	0	0	840	66	tons
Briggs Road Lagoon	Nov '21 - Oct '22	113,130	0	0	1,888,910	2,001,860	0	0	180	gal
Walden Lagoon	Nov '21 - Oct '22	89,570	0	0	1,640,400	1,574,985	0	0	154,985	gal
Compost Building	Nov '21 - Oct '22	0	0	0	6,990	6,990	0	0	0	tons
Silage Leachate Pond	Nov '21 - Oct '22	225,720	2,531,000	0	0	2,311,573	0	0	445,147	gal
All Sources (liquid)	**Nov '21 - Oct '22**	**428,420**	**12,125,000**	**0**	**5,229,310**	**10,336,130**	**1,616,978**	**5,229,310**	**600,312**	**gal**
All Sources (solid)	**Nov '21 - Oct '22**	**70**	**7,590**	**0**	**6,990**	**6,990**	**600**	**6,990**	**70**	**tons**
Milkers - Lagoon	Nov '22 - Oct '23	0	0	0	1,993,397	886,550	1,106,847	0	0	gal
Milker - Slurrystore	Nov '22 - Oct '23	800	7,954,000	0	0	3,548,957	615,748	3,788,897	1,198	gal
Heifer - Slurry tank	Nov '22 - Oct '23	-800	1,640,000	0	0	0	0	1,640,400	-1,200	gal
Milker - Solids Shed	Nov '22 - Oct '23	4	6,752	0	0	0	600	6,150	6	tons
Heifer - Solids Shed	Nov '22 - Oct '23	66	838	0	0	0	0	840	64	tons
Briggs Road Lagoon	Nov '22 - Oct '23	180	0	0	1,795,500	1,751,155	0	0	44,525	gal
Walden Lagoon	Nov '22 - Oct '23	154,985	0	0	1,640,400	1,523,950	0	0	271,435	gal
Compost Building	Nov '22 - Oct '23	0	0	0	6,990	6,990	0	0	0	tons
Silage Leachate Pond	Nov '22 - Oct '23	445,147	2,531,000	0	0	2,296,160	0	0	679,987	gal
All Sources (liquid)	**Nov '22 - Oct '23**	**600,312**	**12,125,000**	**0**	**5,429,297**	**10,006,772**	**1,722,595**	**5,429,297**	**995,945**	**gal**
All Sources (solid)	**Nov '22 - Oct '23**	**70**	**7,590**	**0**	**6,990**	**6,990**	**600**	**6,990**	**70**	**tons**

6.10. Fertilizer Material Annual Summary (Optional)

It is anticipated the cropped fields will need some balance of N and K over the years to maintain yield potential. The manure does not have the same N-P-K ratio as plant uptake or crop removal. In order to prevent P over-application, and P build-up in the soil, the manure application may need to be limited to P availability, making up the different in N and K needs with prescribed and/or custom mixed fertilizer applications.

Product Analysis	Plan Period	Product Needed Nov - Dec	Product Needed Jan - Aug	Product Needed Sep - Oct	Total Product Needed	Units
46-0-0	Nov '20 - Oct '21	0	322,339	0	322,339	lbs
0-0-61	Nov '20 - Oct '21	0	58,095	0	58,095	lbs
0-46-0	Nov '20 - Oct '21	0	17,655	0	17,655	lbs
0-61-0	Nov '20 - Oct '21	0	122	0	122	lbs
46-0-0	Nov '21 - Oct '22	0	184,552	0	184,552	lbs
0-0-61	Nov '21 - Oct '22	0	12,304	0	12,304	lbs
0-46-0	Nov '21 - Oct '22	0	2,787	0	2,787	lbs
46-0-0	Nov '22 - Oct '23	0	167,527	0	167,527	lbs
0-0-61	Nov '22 - Oct '23	0	12,517	0	12,517	lbs
0-46-0	Nov '22 - Oct '23	0	3,431	0	3,431	lbs

6.11. Plan Nutrient Balance (Manure-spreadable Area)

	N (lbs)	P_2O_5 (lbs)	K_2O (lbs)
Total Manure Nutrients on Hand at Start of Plan[a]	0	0	0
Total Manure Nutrients Collected[b]	744,616	277,761	615,970
Total Manure Nutrients Imported[c]	0	0	0
Total Manure Nutrients Exported[d]	107,898	37,826	91,378
Total Manure Nutrients Gained/Lost in Transfer[e]	4,655	2,940	5,880
Total Manure Nutrients on Hand at End of Plan[f]	7,288	2,962	5,824
Total Manure Nutrients Applied[g]	635,044	240,964	524,931
Available Manure Nutrients Applied (Utilized by plan's crops)[h]	170,716	208,495	454,165
Available Manure Nutrients Applied (Not utilized by plan's crops)[i]	62,430	32,469	70,766
Commercial Fertilizer Nutrients Applied (Utilized by plan's crops)[j]	303,851	10,744	49,796
Commercial Fertilizer Nutrients Applied (Not utilized by plan's crops)[k]	0	0	0
Available Nutrients Applied (Manure and fertilizer; utilized by plan's crops)[l]	474,567	219,239	503,961
Nutrient Utilization Potential[m]	469,046	337,353	850,398
Nutrient Balance of Spreadable Acres[n] [p]	5,521	-118,114	-346,437
Average Nutrient Balance per Spreadable Acre per Year[o] [p]	2	-33	-97

a. Total manure nutrients present in storage at the beginning of the plan.
b. Total manure nutrients collected on the farm.
c. Total manure nutrients imported onto the farm.
d. Total manure nutrients exported from the farm to an external operation.
e. Net change in total manure nutrients due to transfers between storage units with differing analyses.
f. Total manure nutrients present in storage at the end of plan.
g. Total nutrients present in land-applied manure. These values do not account for losses due to rate, timing, and method of application.
h. Manure nutrients applied and available to crops in the plan. These values are based on the total manure nutrients applied after accounting for nutrient losses due to rate, timing, and method of application. Nutrients which will not be utilized by crops in the plan are excluded from these values.
i. Manure nutrients applied that will be utilized by crops outside the plan. This usually results from Fall nutrient applications at the end of the plan intended for crops in subsequent years.
j. Nutrients applied as commercial fertilizers and nitrates contained in irrigation water. Nutrients that will not be utilized by crops in the plan are excluded from these values.
k. Nutrients applied as commercial fertilizer which will be utilized by crops outside the plan.
l. Sum of available manure nutrients applied and commercial fertilizer nutrients applied.
m. Nutrient utilization potential of crops grown. For N the value is based on the N recommendation for non-legume crops and N uptake or other state-imposed limit for N application rates for legumes. P_2O_5 and K_2O values are based on fertilizer recommendations or crop removal (whichever is greater).
n. Available nutrients applied minus crop nutrient utilization potential. Negative values indicate additional nutrient utilization potential and positive values indicate over-application.
o. Average per acre-year nutrient balance. Values are calculated by dividing nutrient balance of spreadable acres by the number of spreadable acres in the plan and by the length of the plan in years. Negative values indicate additional nutrient utilization potential and positive values indicate over-application.

p. Non-trivial, positive values for N indicate that the plan was not properly developed. Negative values for N indicate additional nutrient utilization potential which may or may not be intentional. For example, plans that include legume crops often will not utilize the full N utilization potential for legume crops if manure can be applied to non-legume crops that require N for optimum yield. Positive values for P_2O_5 and/or K_2O do not necessarily indicate that the plan was developed improperly. For example, producers may be allowed to apply N-based application rates of manure to fields with low soil test P values or fields with a low potential P-loss risk based on the risk assessment tool used by the state. Negative values for P_2O_5 and K_2O indicate that planned applications to some fields are less than crop removal rates or fertilizer recommendations.

Plan Nutrient Balance (Non-manure-spreadable Area)

	N (lbs)	P_2O_5 (lbs)	K_2O (lbs)
Commercial Fertilizer Nutrients Applied[a]	7,064	382	962
Nutrient Utilization Potential[b]	13,069	2,422	9,600
Nutrient Balance of Non-spreadable Acres[c e]	-6,005	-2,040	-8,638
Average Nutrient Balance per Non-spreadable Acre per Year[d e]	-55	-19	-79

a. Nutrients applied as commercial fertilizers and nitrates contained in irrigation water.
b. Nutrient utilization potential of crops grown based on crop fertilizer recommendations.
c. Commercial fertilizer nutrients applied minus crop nutrient utilization potential. Negative values indicate additional nutrient utilization potential and positive values indicate over-application.
d. Average per acre-year nutrient balance. Values are calculated by dividing nutrient balance of non-spreadable acres by number of non-spreadable acres in plan and by the length of the plan in years. Negative values indicate additional nutrient utilization potential and positive values indicate over-application.

e. Non-trivial, positive values for N indicate that the plan was not properly developed. Negative values for N indicate additional nutrient utilization potential which may or may not be intentional. Positive values for P_2O_5 and/or K_2O do not necessarily indicate that the plan was developed improperly. For example, multiple year applications may have been planned during the final plan year(s) and these nutrients will not be utilized by crops in the current plan. Negative values for P_2O_5 and K_2O indicate that applications to some fields may have been delayed to allow the producer to apply the nutrients in accordance with their fertilization schedule.

Section 7. Record Keeping Forms

7.1. Nutrient Application Record

Field Name or FSA ID (Farm, Tract, Field)	Date	Nutrient Source or N-P-K Analysis	Equipment Type	Days to Incorporation	Rate/Acre (Gal or Ton)	Loads	Total Applied (Gal or Ton)	Acres Covered

7.2. Crop Record

Field Name or FSA ID (Farm, Tract, Field)	Crop	Variety	Planting Date	Population Planted	Crop Residue* %	Tillage Type/Date	Harvest Date	Yield/Acre

7.3. Irrigation Record

Field Name or FSA ID (Farm, Tract, Field)	Date	Nutrient Source or N-P-K Analysis*	Rate/Acre (Gallons)	Total Applied (Gallons)	Acres Covered

7.4. Manure Export Record

Date	Amount (Gal or Ton)	Receiving Operation	Address	Contact	Phone

Section 8. References

8.1. Publications

Crop Fertilizer Recommendations

Fertilizer Recommendations Table.xlsx (2/18/2011)

Manure Nutrient Availability

The Penn State Agronomy Guide 2013-2014, Table 1.2-15
http://extension.psu.edu/agronomy-guide/cm/tables/table1-2-15.pdf

Phosphorus Assessment

CT NRCS Phosphorus Runoff Index, Ver. 1 (February 2012)

Cornell Phosphorus Index
http://nmsp.cals.cornell.edu/publications/files/Pindex.pdf

Practice Standards

Connecticut NRCS Nutrient Management Standard (590), June 2012
http://efotg.sc.egov.usda.gov/references/public/CT/June_2012_Tech_Guide_Index.pdf

8.2. Software and Data Sources

MMP Version	MMP 0.3.8.2
MMP Plan File	Graywall Farms MMP 2021.mmp 2/3/2020 4:01:09 PM
MMP Initialization File for Connecticut	10/20/2017
MMP Soils File for Connecticut	1/11/2017
Phosphorus Assessment Tool	2016.03.14
NRCS Conservation Plan(s)	n/a
RUSLE2 Library	Version: 2.6.8.4 Build: Mar 27 2017 Science: 20170216
RUSLE2 Database	MOSES_CT.gdb

8.3. Comprehensive Nutrient Management Plan (CNMP) Checklist

County/State: Windham Co / CT	Date Plan Submitted: 2/4/2021
Producer/Owner: Graywall Farm / Lincoln Chesmer	Technical Service Provider: Melissa Sutyla, NRCS

Cover and Signature Page		
Yes	**No**	
X		All Required Signatures
X		Name of Operator, Facility Location, and Mailing Address
X		Plan Period

Section 1 – Background and Site Information		
Yes	**No**	
X		General Description of Operation
X		Type/Size of the AFO
X		Identified Natural Resource Concerns

Section 2 – Farmstead (Production Area) and Waste Storage		
Yes	**No**	
X		Map(s) of the Farmstead
X		Recommended Conservation Practices
X		Manure Storage
X		Animal Inventory
X		Normal Animal Mortality Management
X		Planned Manure Exports off the Farm
X		Planned Manure Imports onto the Farm
X		Planned Internal Transfers of Manure

Section 3 – Farmstead Safety and Security		
Yes	**No**	
X		Emergency Response Plan
X		Biosecurity Measures and Protocol for Visitors and Veterinary Waste
X		Catastrophic Animal Mortality Management
X		EPA Agreeance with Chemical Handling Checklist (NPDES permits only)

Section 4 – Crop and Pasture (Land Treatment)		
Yes	**No**	
X		Maps of Fields, Soils, and Topography
X		Recommended Practices

Section 5 – Soil and Risk Assessment Analysis		
Yes	**No**	
X		Soil Information
X		Predicted Soil Erosion
X		Nitrogen and Phosphorus Risk Analyses
X		Additional Field Data Required by Risk Assessment Procedure(s)

Section 6 – Nutrient Management		
Yes	**No**	*This shall meet the technical criteria for the Nutrient Management Practice 590 Standard.*
X		Field Information
X		Manure Application Setback Distances and Maps
X		Soil Test Data

X		Manure Nutrient Analyses
X		Planned Crops and Fertilizer Recommendations
X		Planned Nutrient Applications
X		Field Nutrient Balance
X		Manure Inventory Annual Summary
X		Fertilizer Material Annual Summary
X		Whole Farm Nutrient Balance

Section 7 – Record Keeping

Yes	No	*Planners shall work with the producer and provide guidance regarding advantageous and required recordkeeping. The recordkeeping items include the following tables and forms.*
X		Annual Crop Records
X		Manure Application Records
X		Other Nutrient Applications (commercial fertilizer and irrigation water records)
X		Manure Export Record
X		Internal Transfers of Manure
X		Other Records (required by State and/or local regulations)

Section 8 – References

Yes	No	
X		Publications
X		Software and Data Sources (including pertinent version information)

Yes	No	Checklist Approval
x		I have reviewed this Comprehensive Nutrient Management Plan (CNMP) and verified that it meets all the criteria of the Conservation Activity Plan 102 in accordance with Section 2508 of the Food, Conservation, and Energy Act of 2008.

NRCS Representative Name and Title:	Office Location:
Jim Hyde, State Agronomist, USDA NRCS, CT	Tolland, CT
NRCS Representative Signature:	Date:
Notes (If "No" is checked, include reasons for denial, comments, missing items that need to be added, etc.):	

Appendix A

Field Location Maps

Field Location Map:
Chappell Rd Field

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2224/8609

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,000

190 0 190 380 570 760 Feet

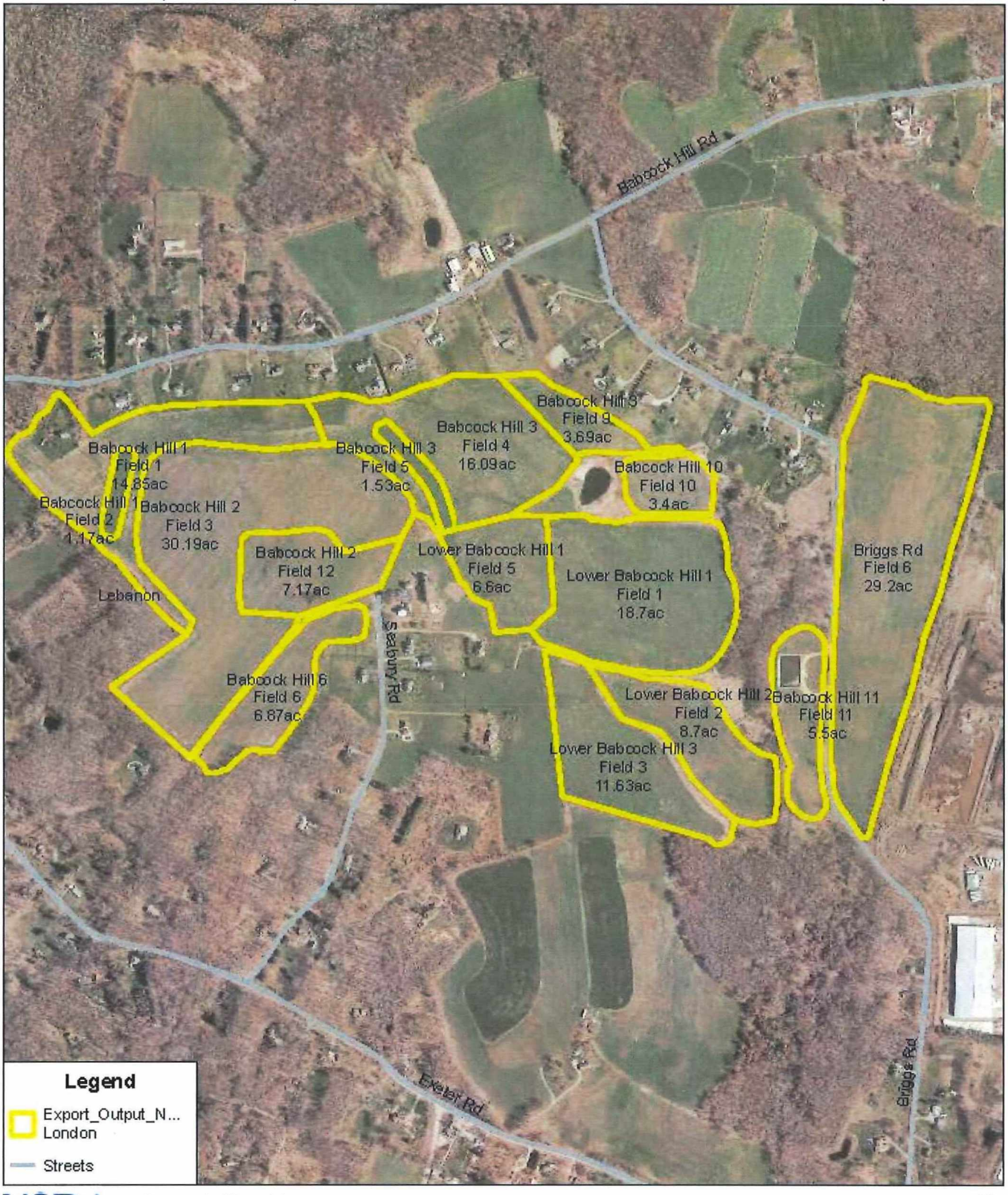
N

Field Location Map:
Babcock Hill

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2183 T(8219/7983/7679)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:9,500

460 0 460 920 1,380 1,840 Feet

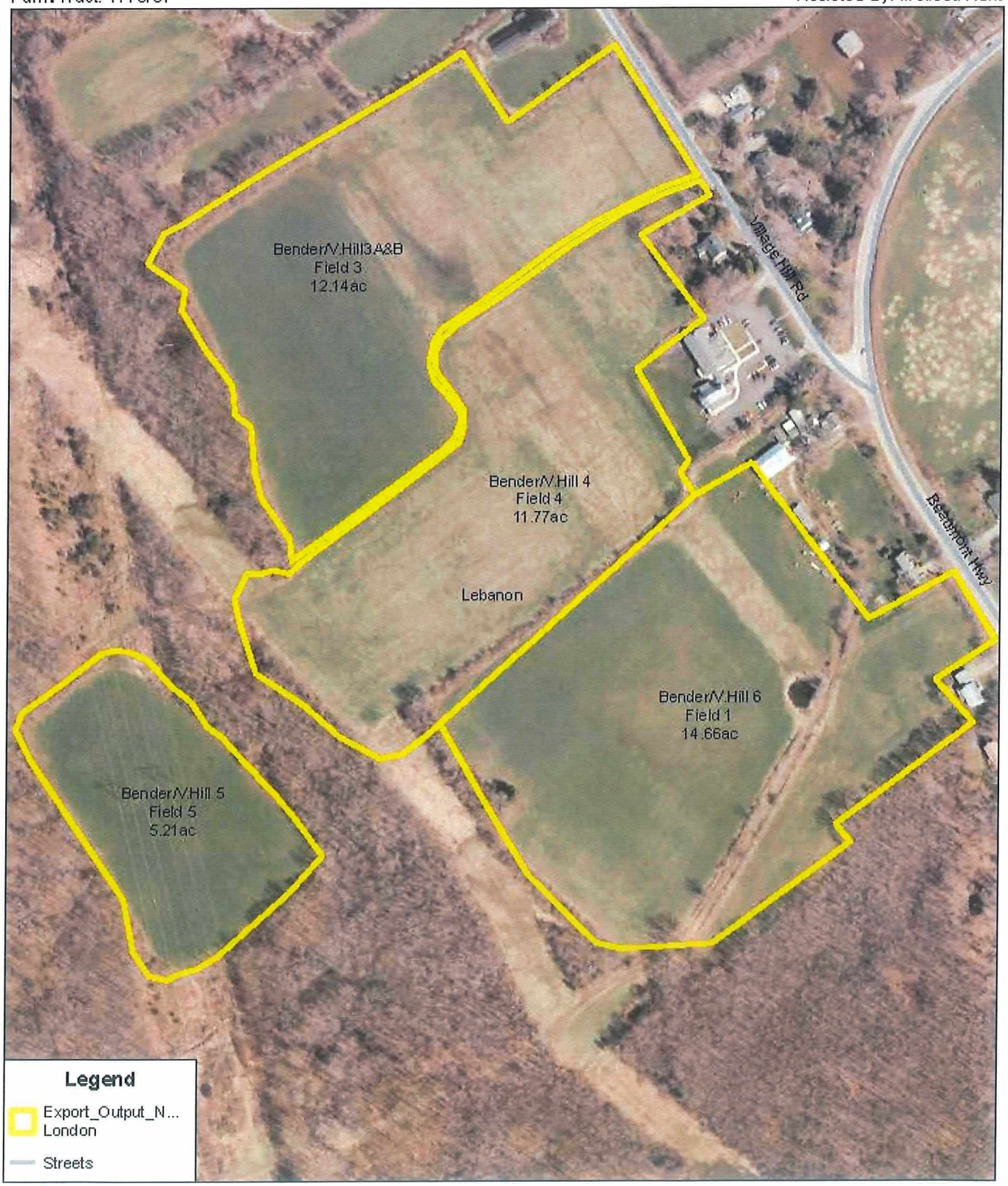
N

Field Location Map:
Bender V. Hill

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/67

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

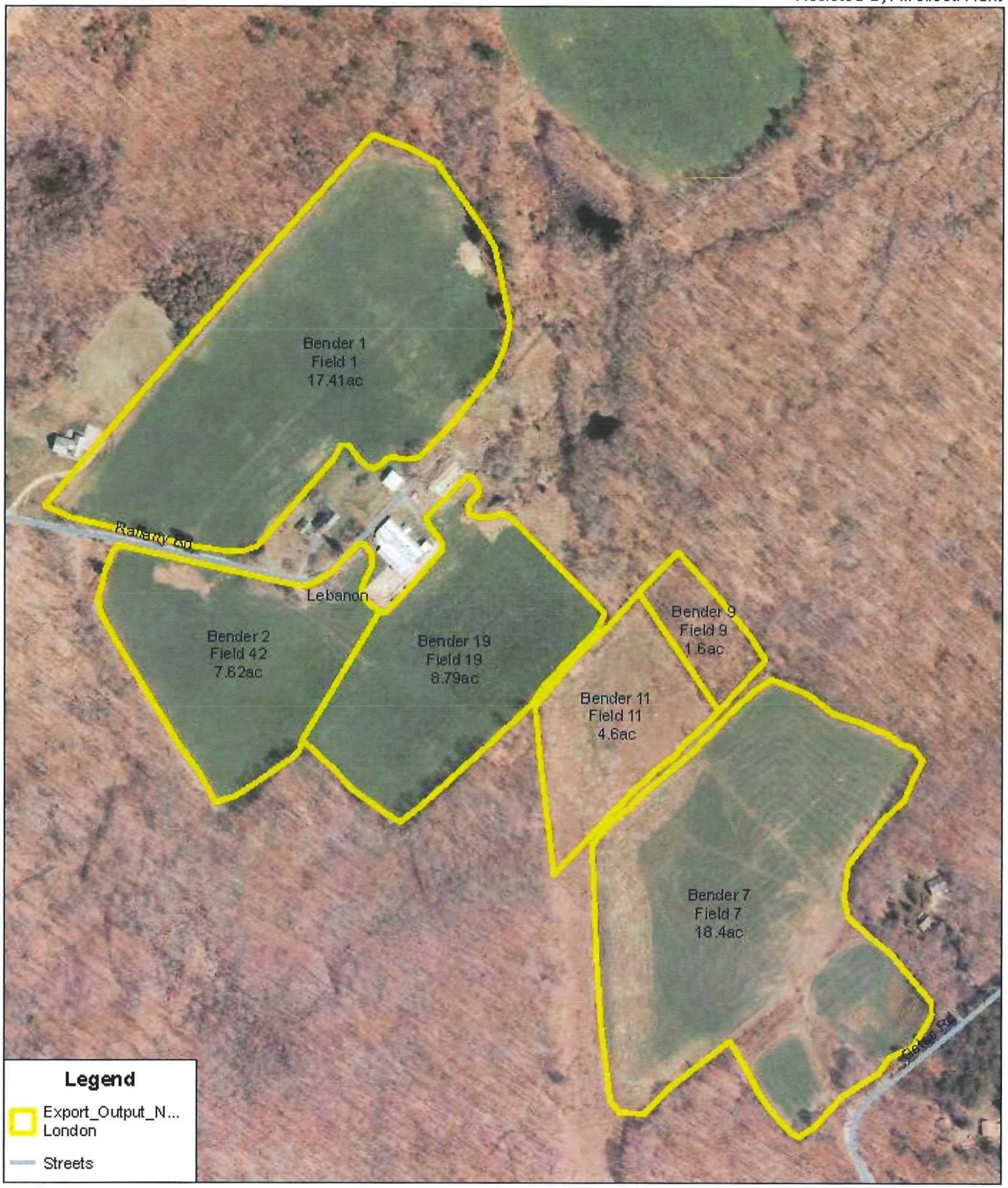
N

Field Location Map: Bender

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/8159

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,750

230 0 230 460 690 920 Feet

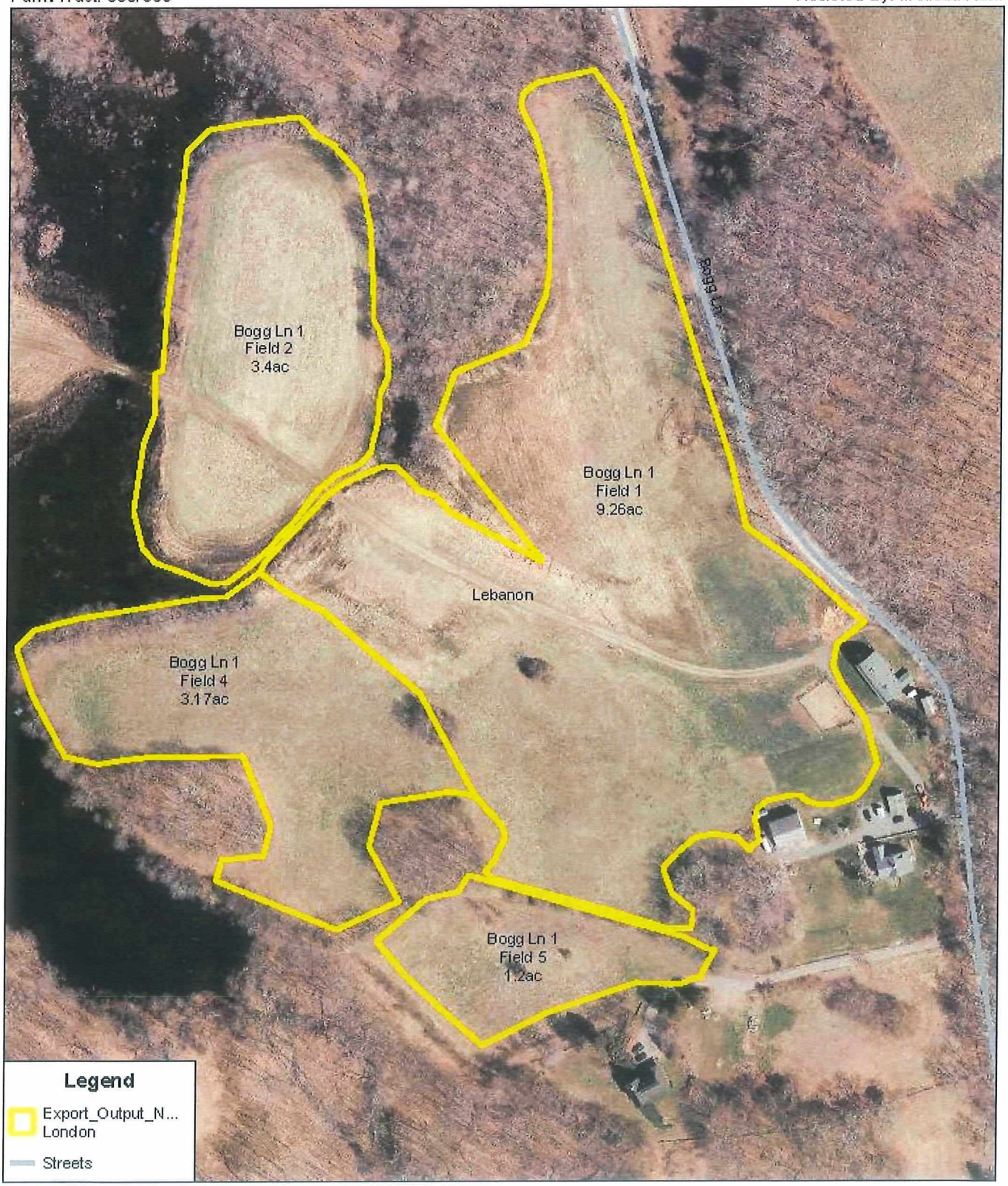
N

Field Location Map:
Bogg Ln 1

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,250

100 0 100 200 300 400 Feet

N

Field Location Map:
Bogg Ln 2

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 1855/1957 & 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,600

170 0 170 340 510 680 Feet

N

Field Location Map:
Bogg Ln Valley

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 869/958 & 89/74

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

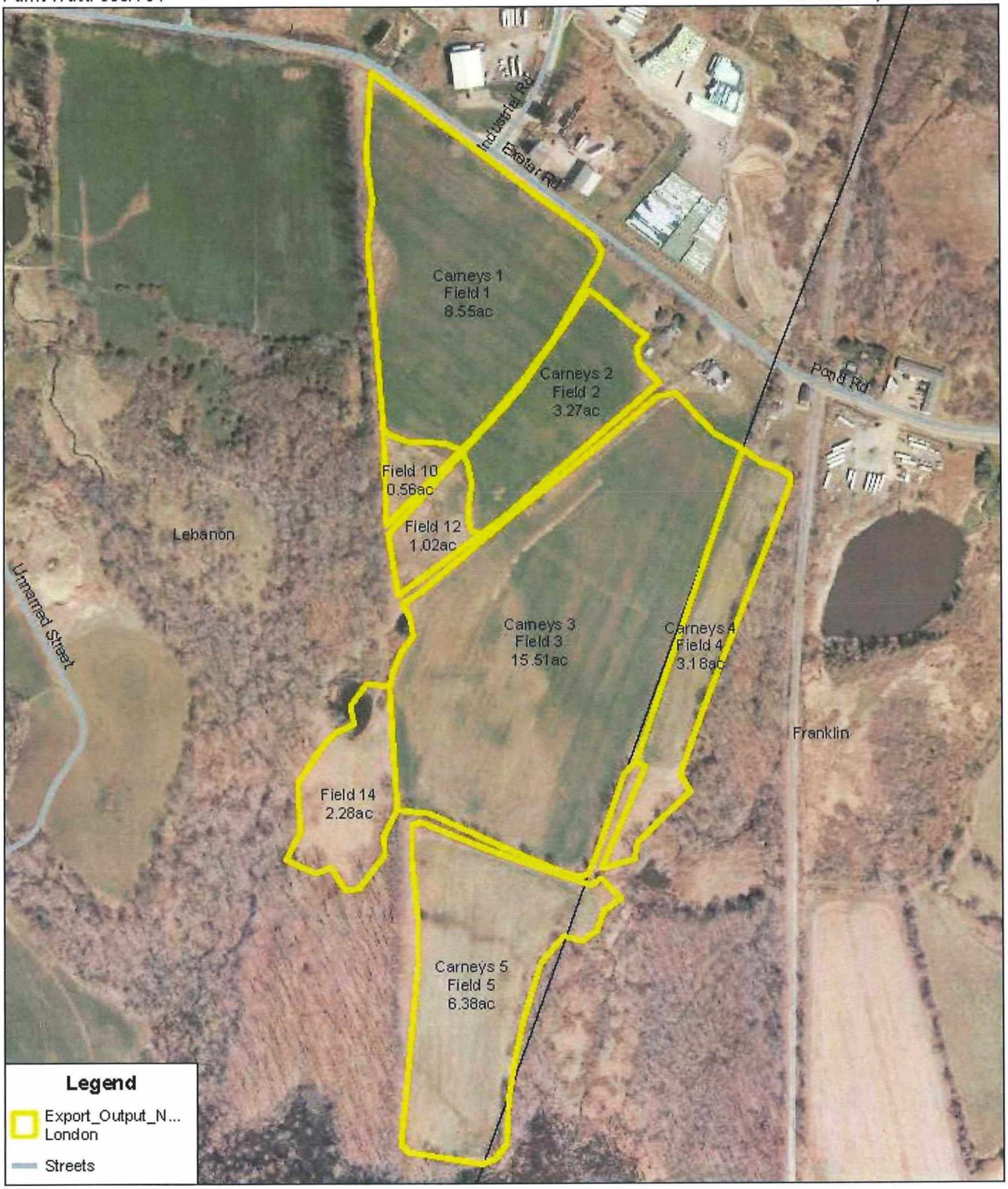
N

Field Location Map: Carneys

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 366/704

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840 Feet

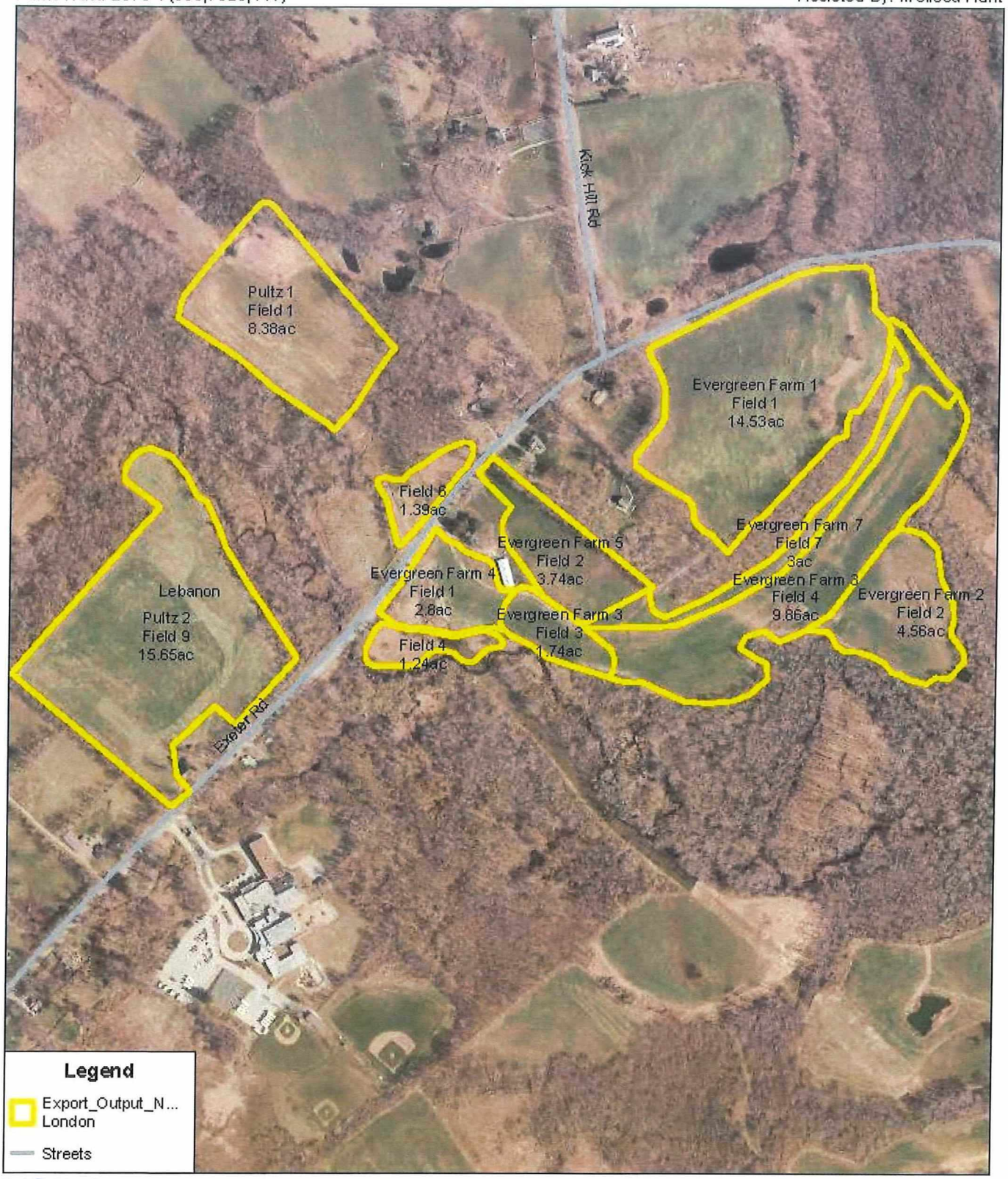
N

Field Location Map: Evergreen Farm

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079 T(688,7523,117)

Agency: USDA NRCS
Assisted By: Melissa Hunt



Prepared with assistance from the USDA Natural Resources Conservation Service

1:6,500

310 0 310 620 930 1,240 Feet

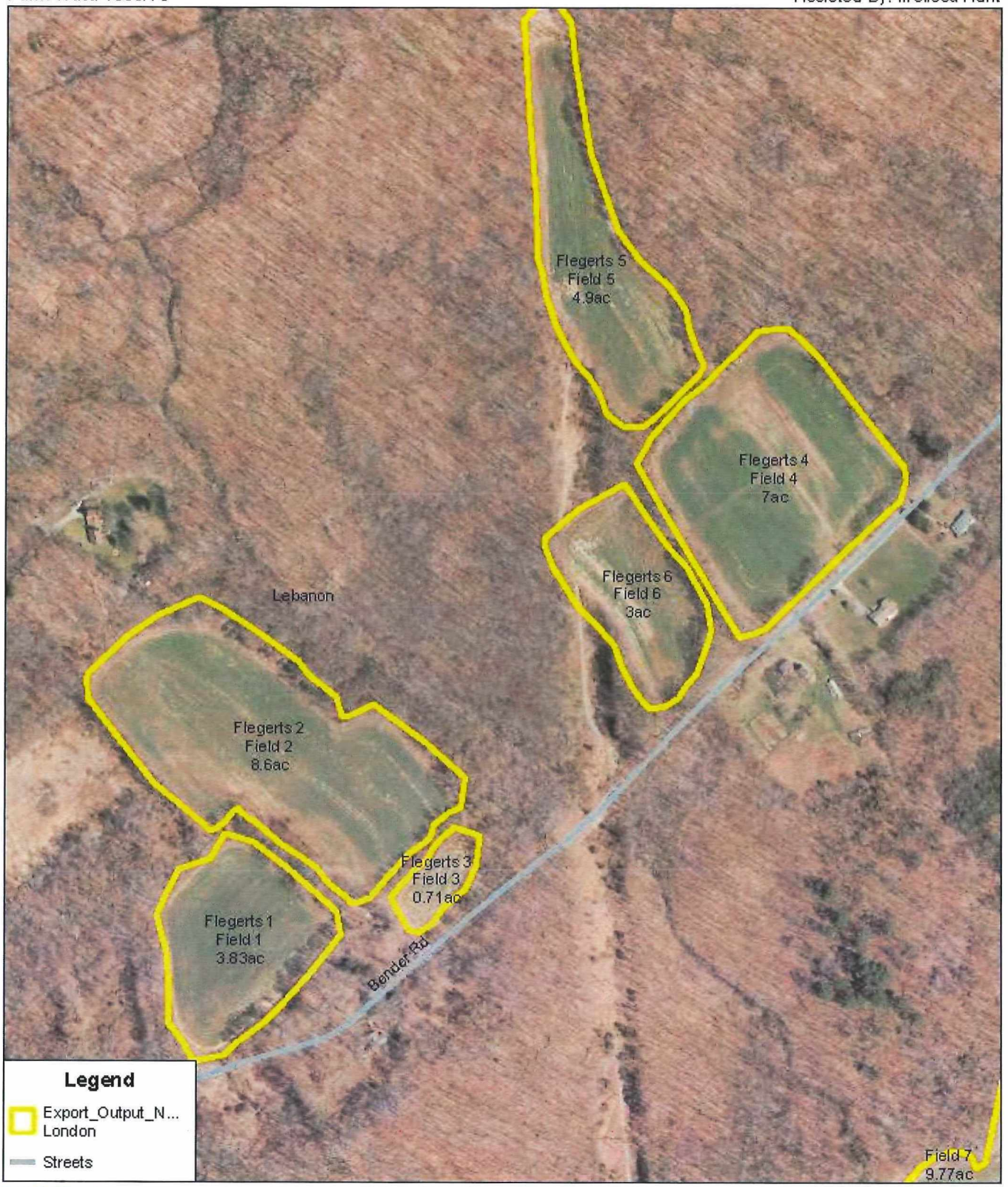
N

Field Location Map: Flegerts

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 1008/73

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,300

200 0 200 400 600 800 Feet

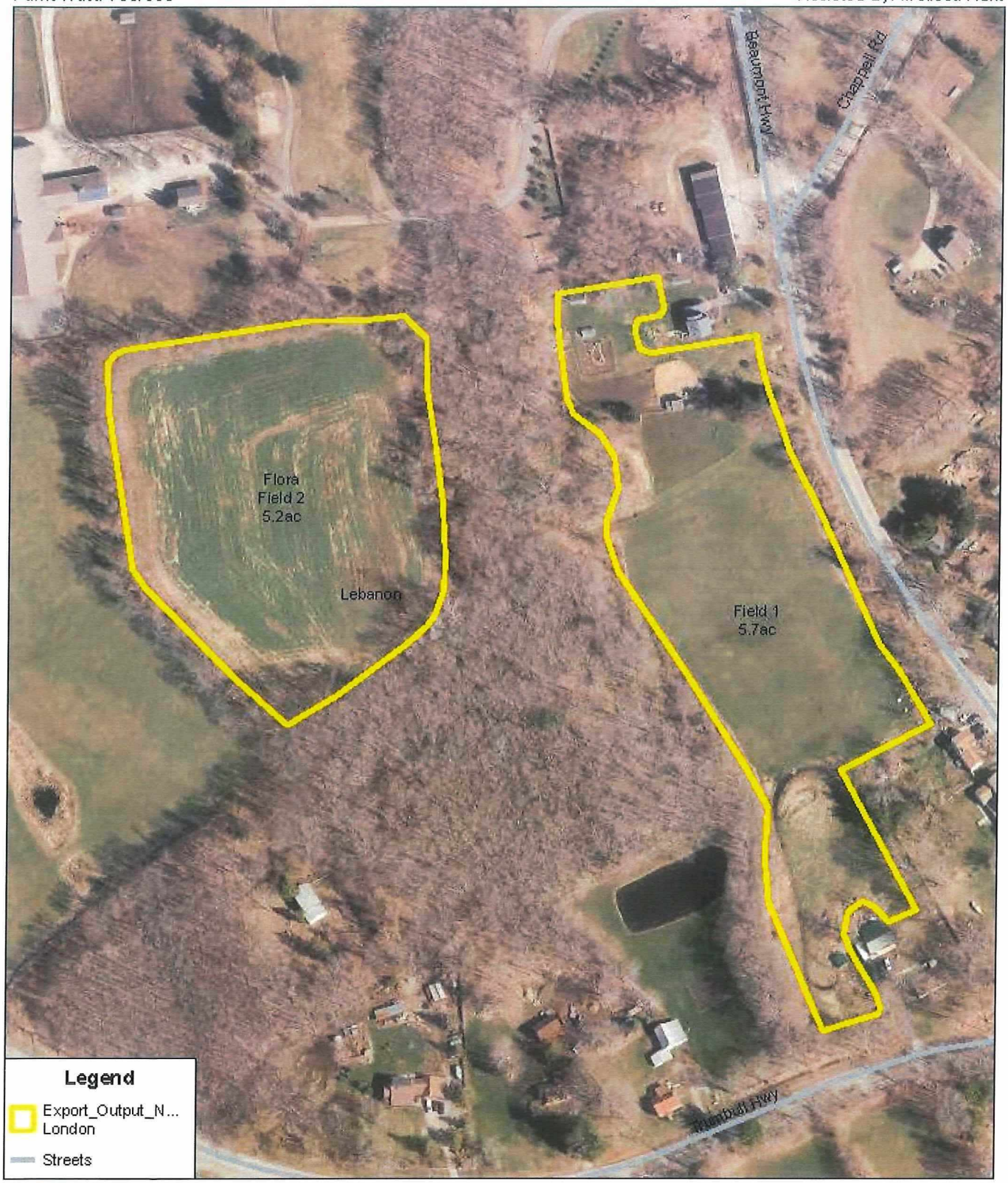
N

Field Location Map:
Flora

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 768/560

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

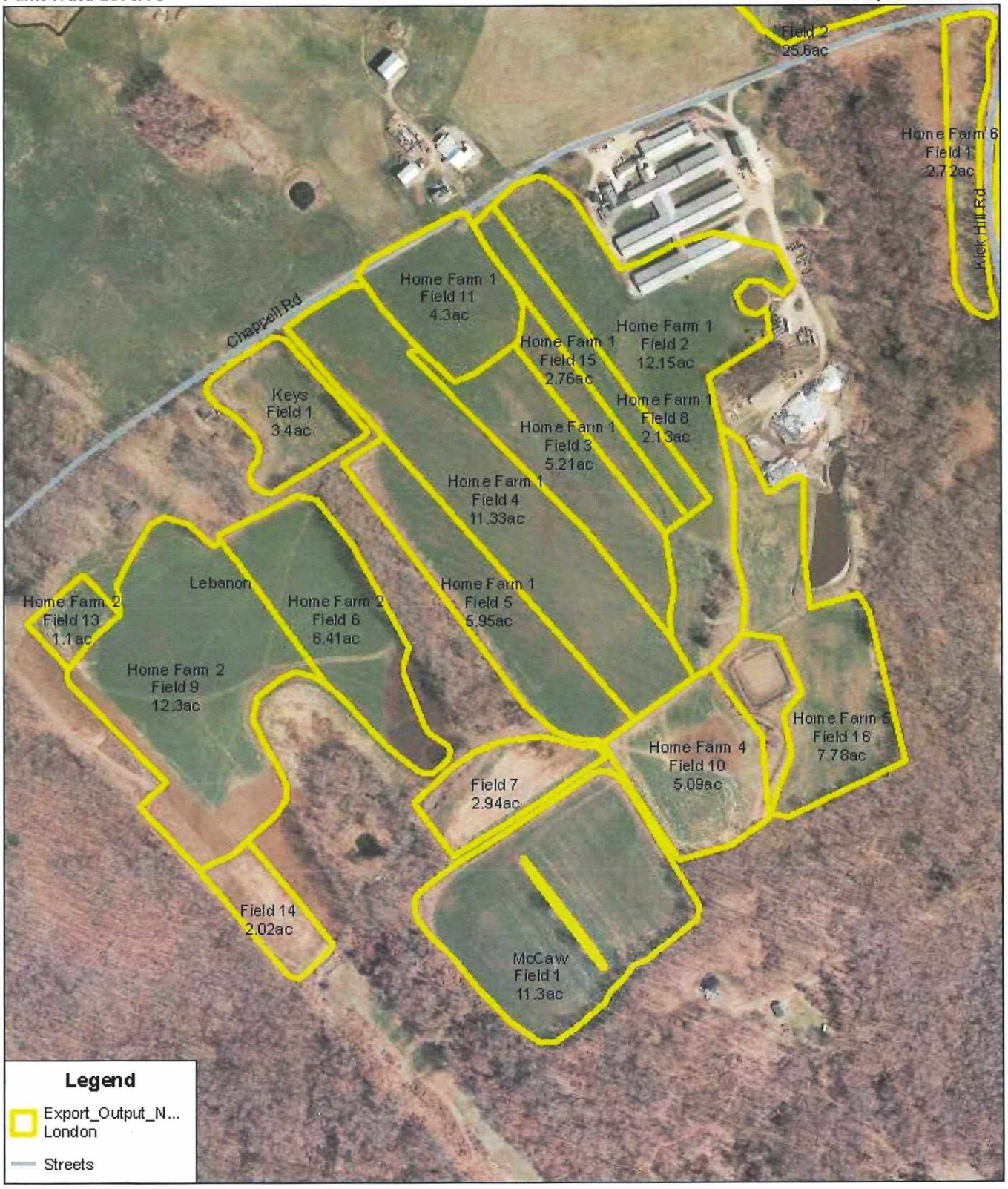
N

Field Location Map:
Home Farm

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/76

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,750

275 0 275 550 825 1,100 Feet

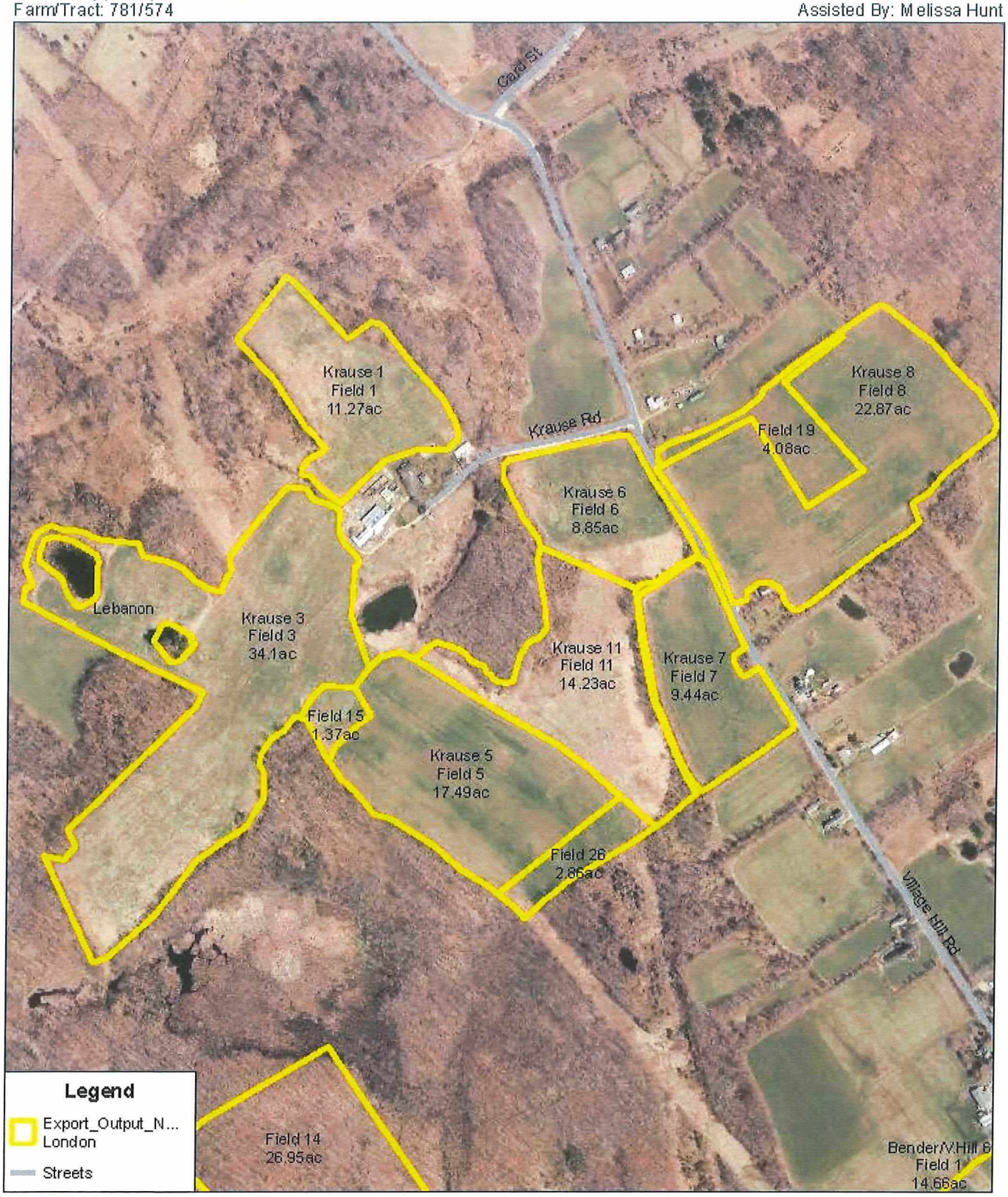
N

Field Location Map: Krause

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 781/574

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,750

375 0 375 750 1,125 1,500 Feet

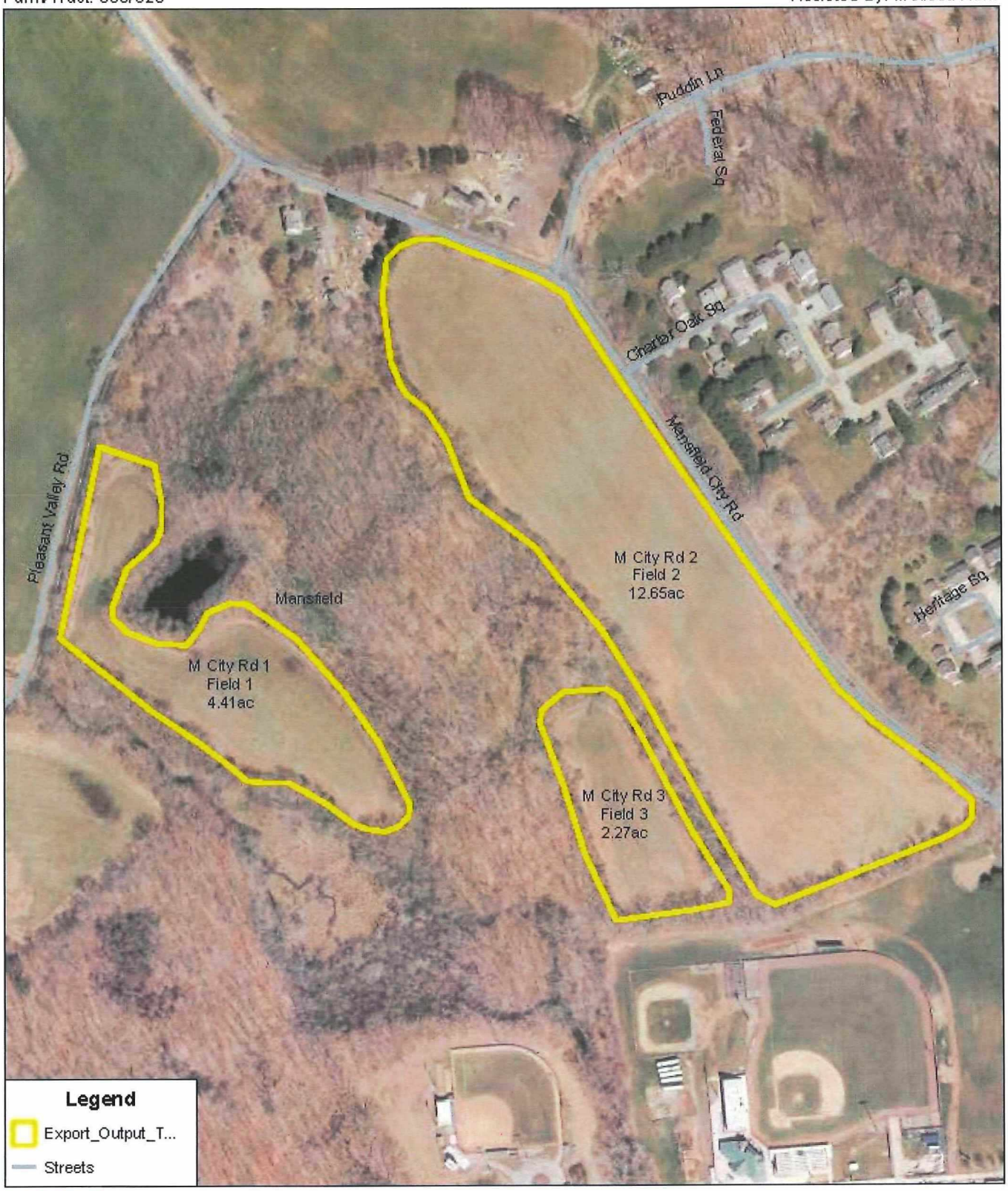
N

Field Location Map:
M City Rd

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 906/928

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

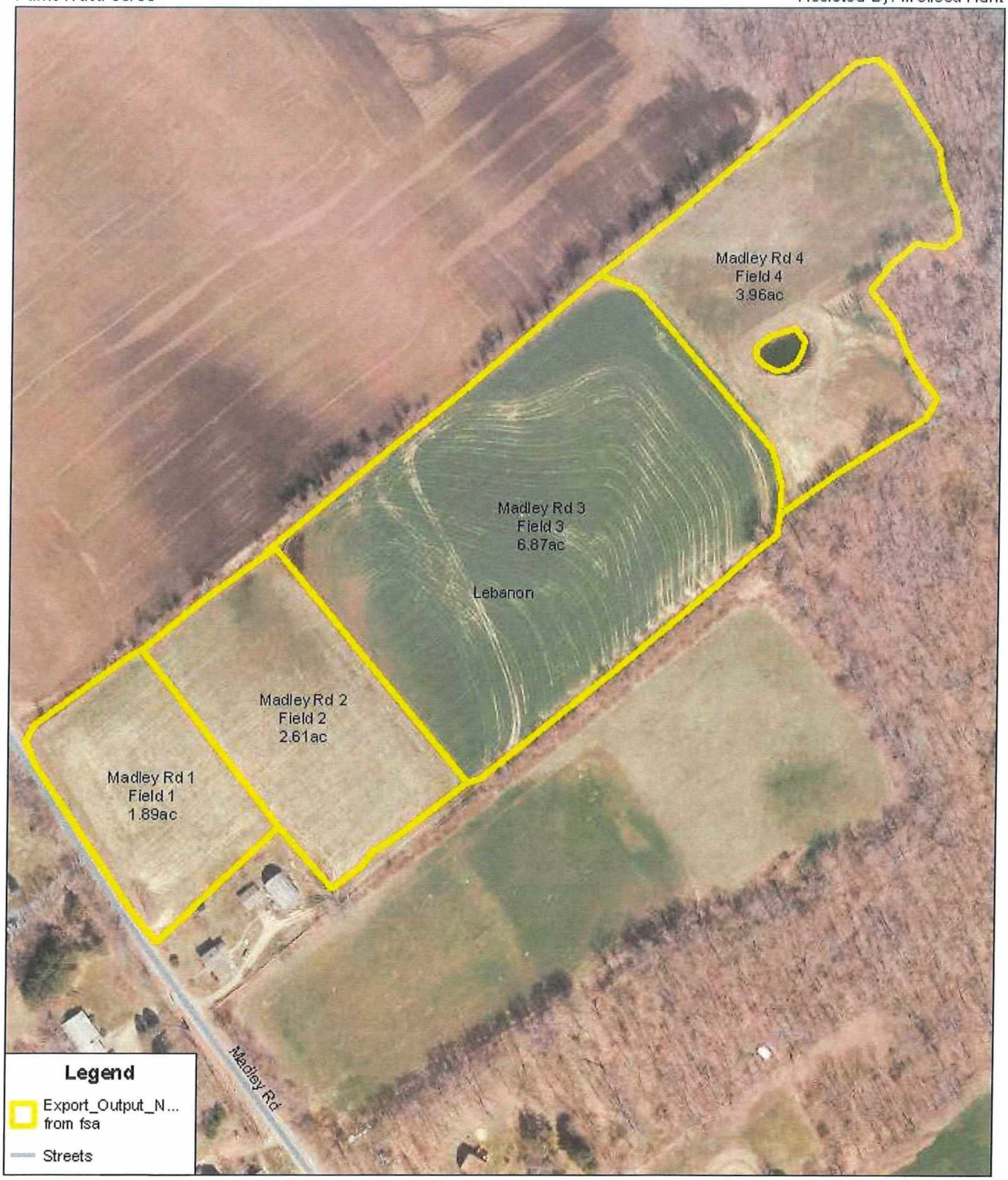
N

Field Location Map:
Madley Rd

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 90/86

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480
Feet

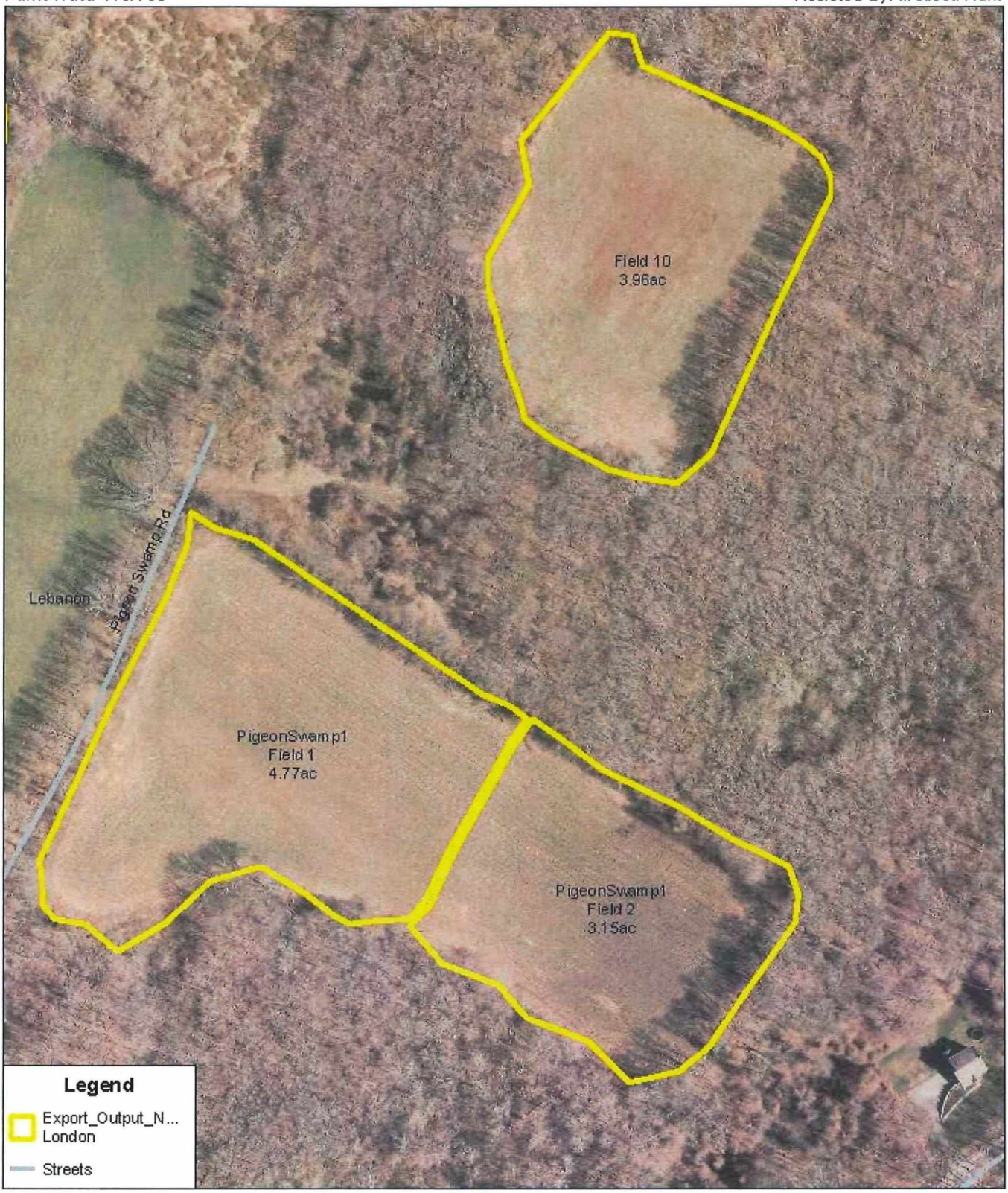
N

Field Location Map:
Pigeon Swamp

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 413/759

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,250

100 0 100 200 300 400 Feet

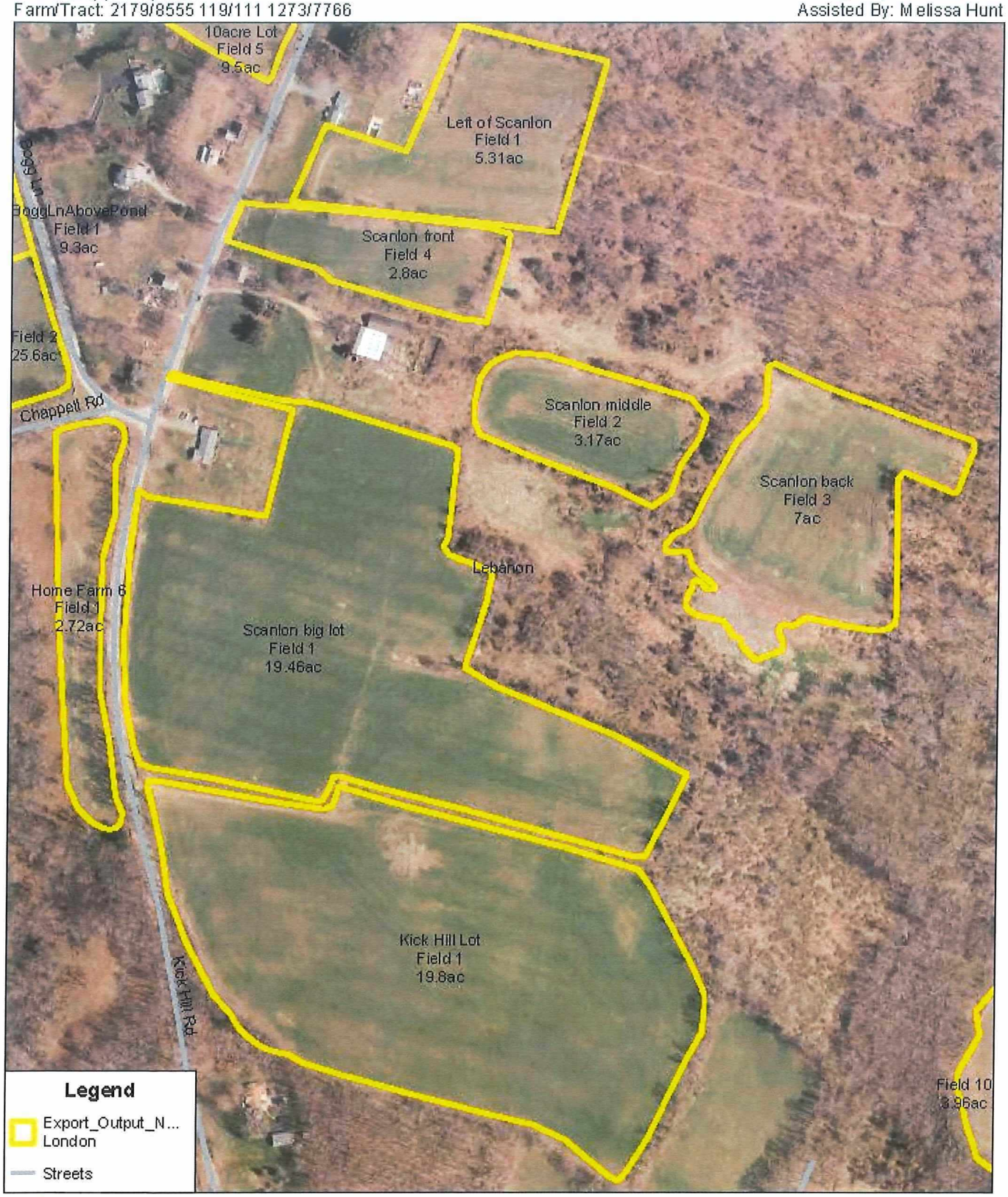
N

Field Location Map: Scanlon

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2179/8555 119/111 1273/7766

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,250

200 0 200 400 600 800 Feet

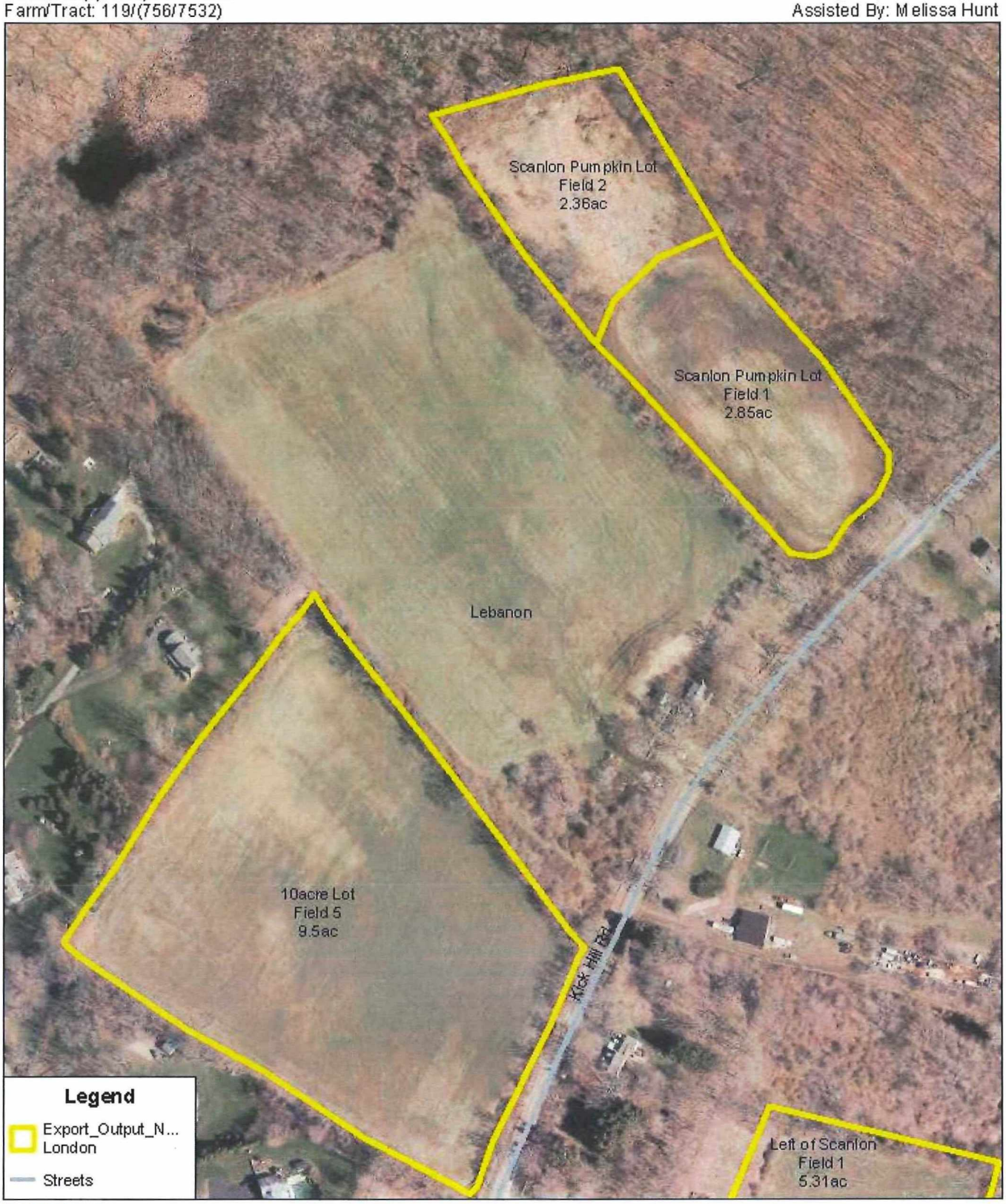
N

Field Location Map:
Scanlon Pumpkin

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 119/(756/7532)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,750

130 0 130 260 390 520 Feet

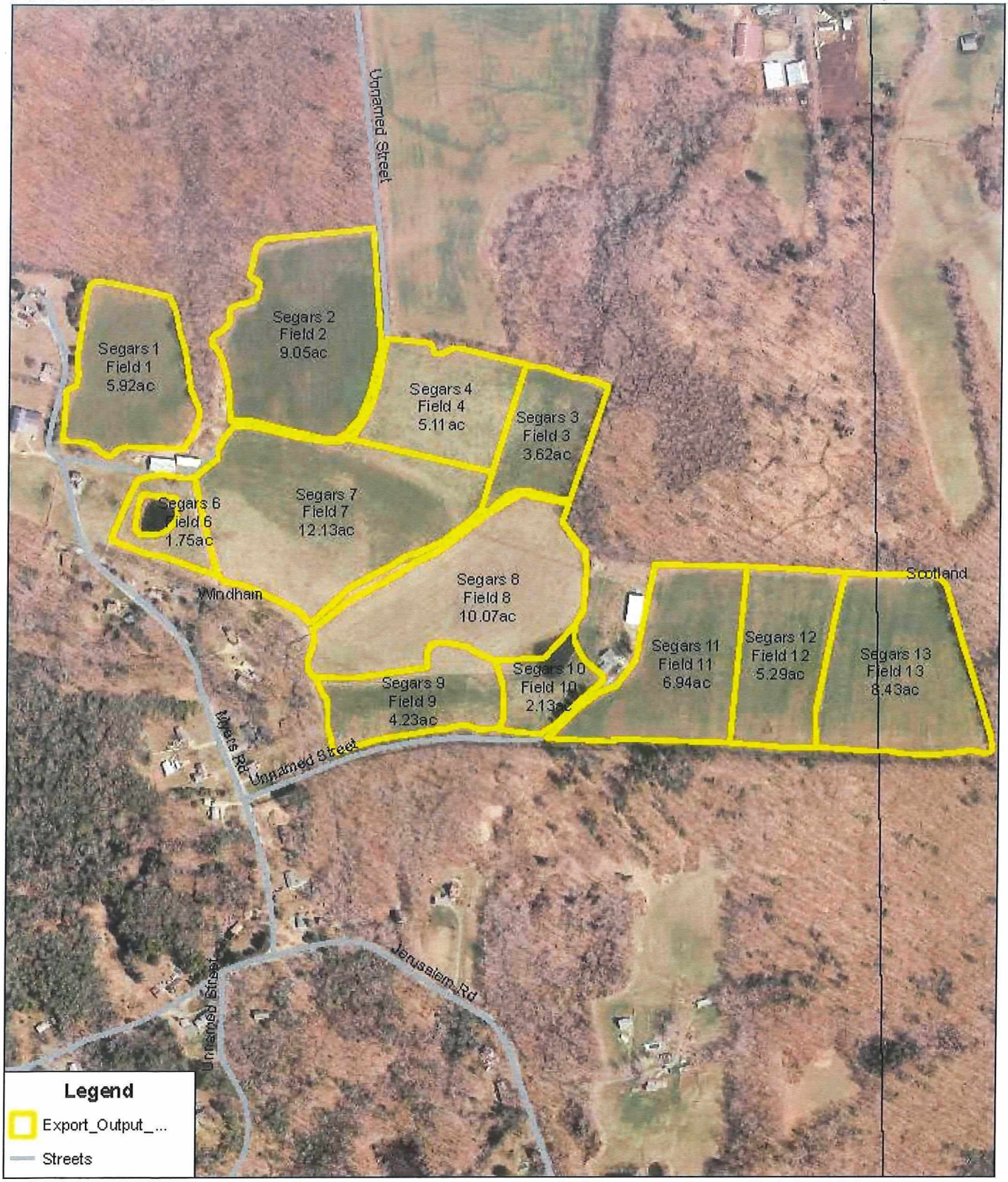
N

Field Location Map: Segars

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 441/135

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:6,500

310 0 310 620 930 1,240 Feet

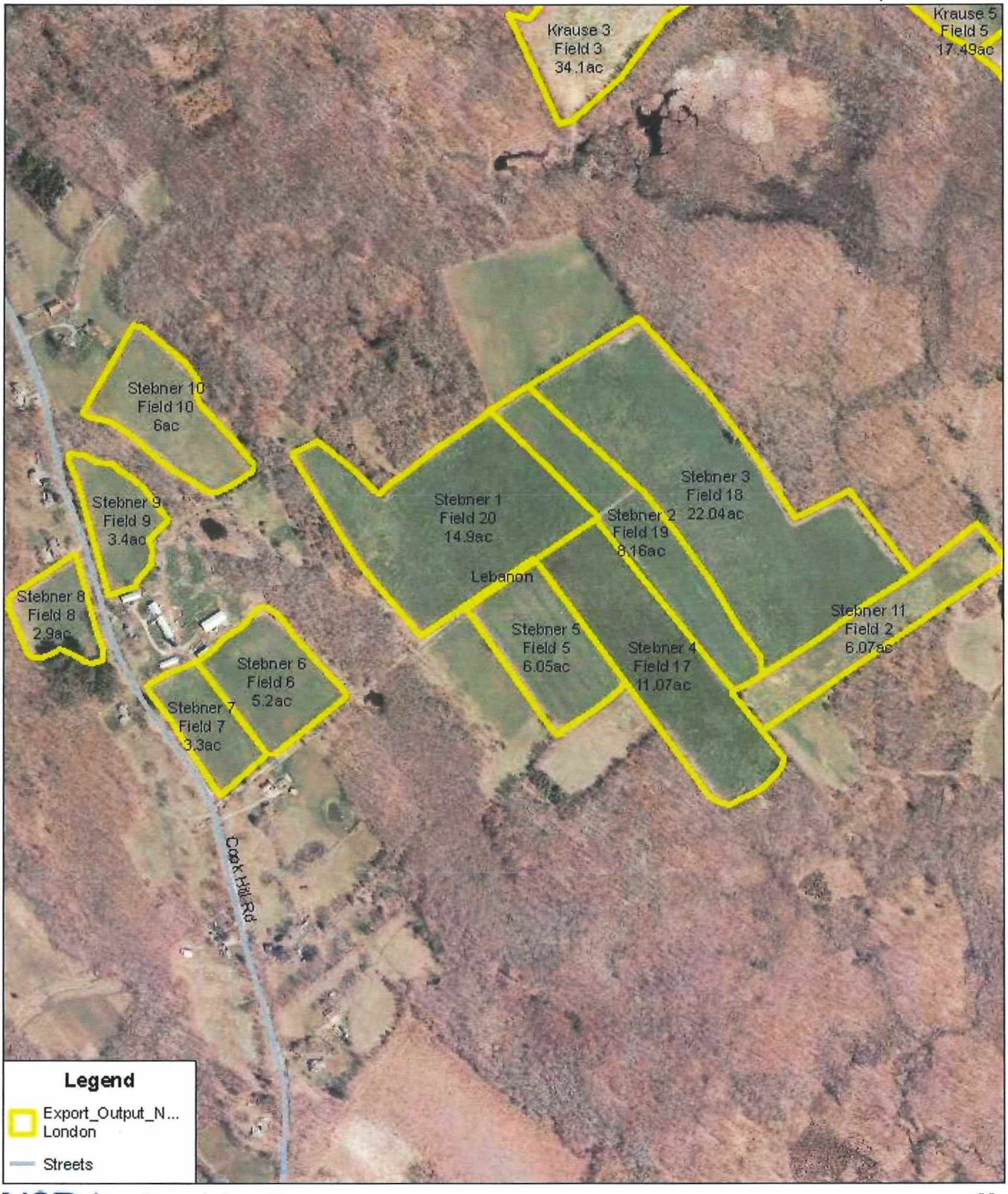
N

Field Location Map: Stebner

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2181/8557

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,600

360 0 360 720 1,080 1,440
Feet

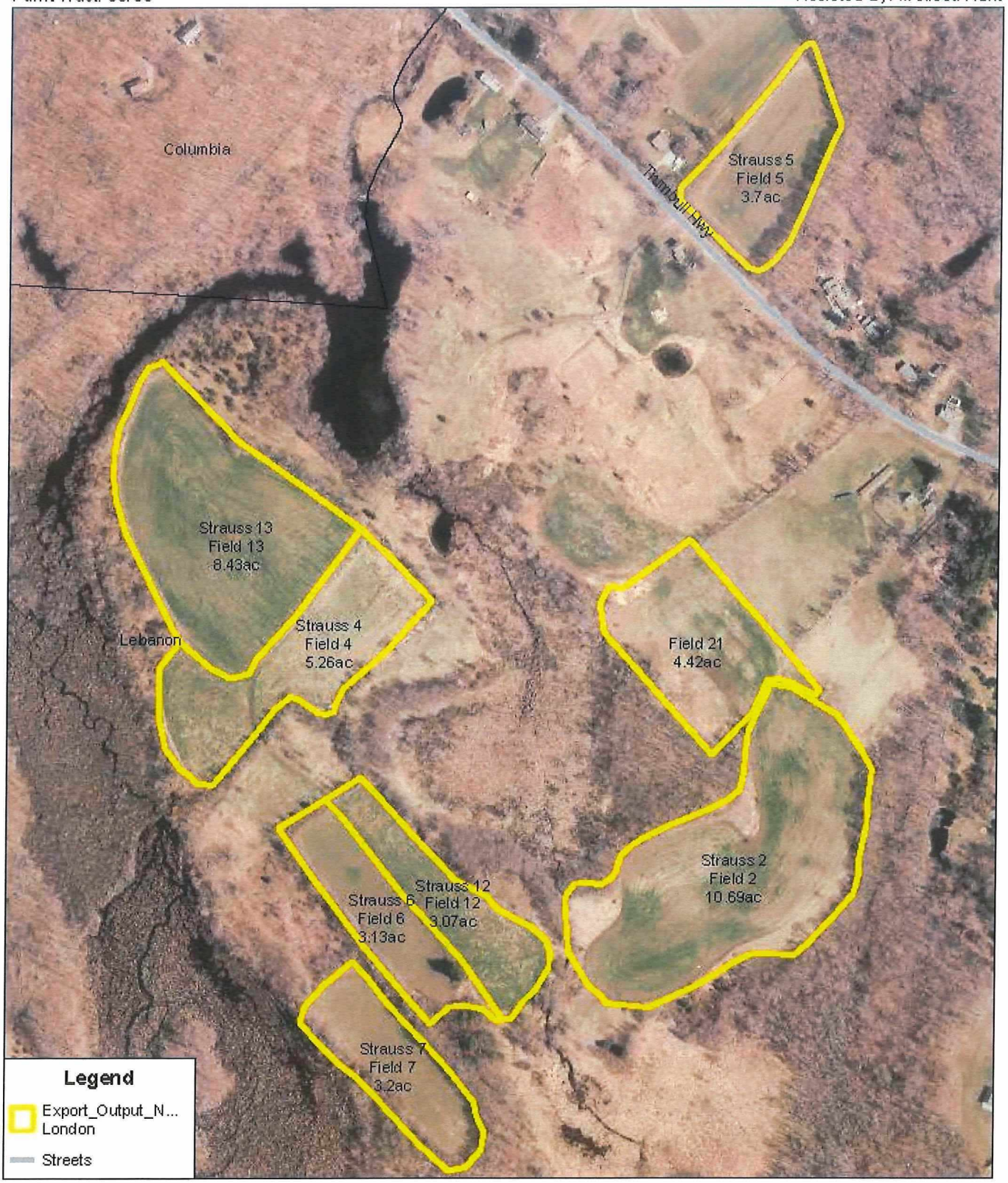
N

Field Location Map: Strauss

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 50/33

Agency: USDA NRCS
Assisted By: Melissa Hunt



Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,000

240 0 240 480 720 960 Feet

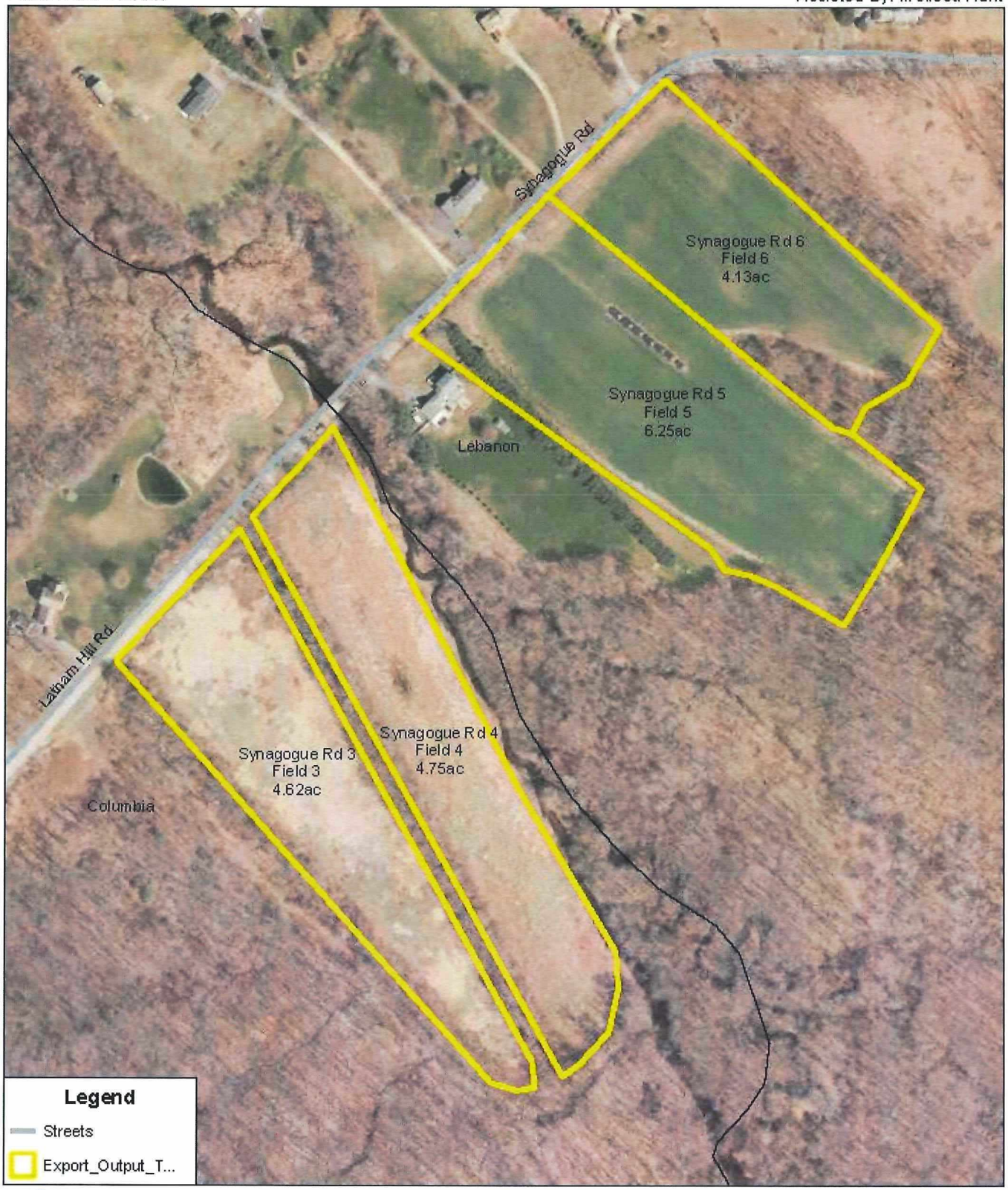
N

Field Location Map: Synagogue Rd

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 349/847

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,000

140 0 140 280 420 560 Feet

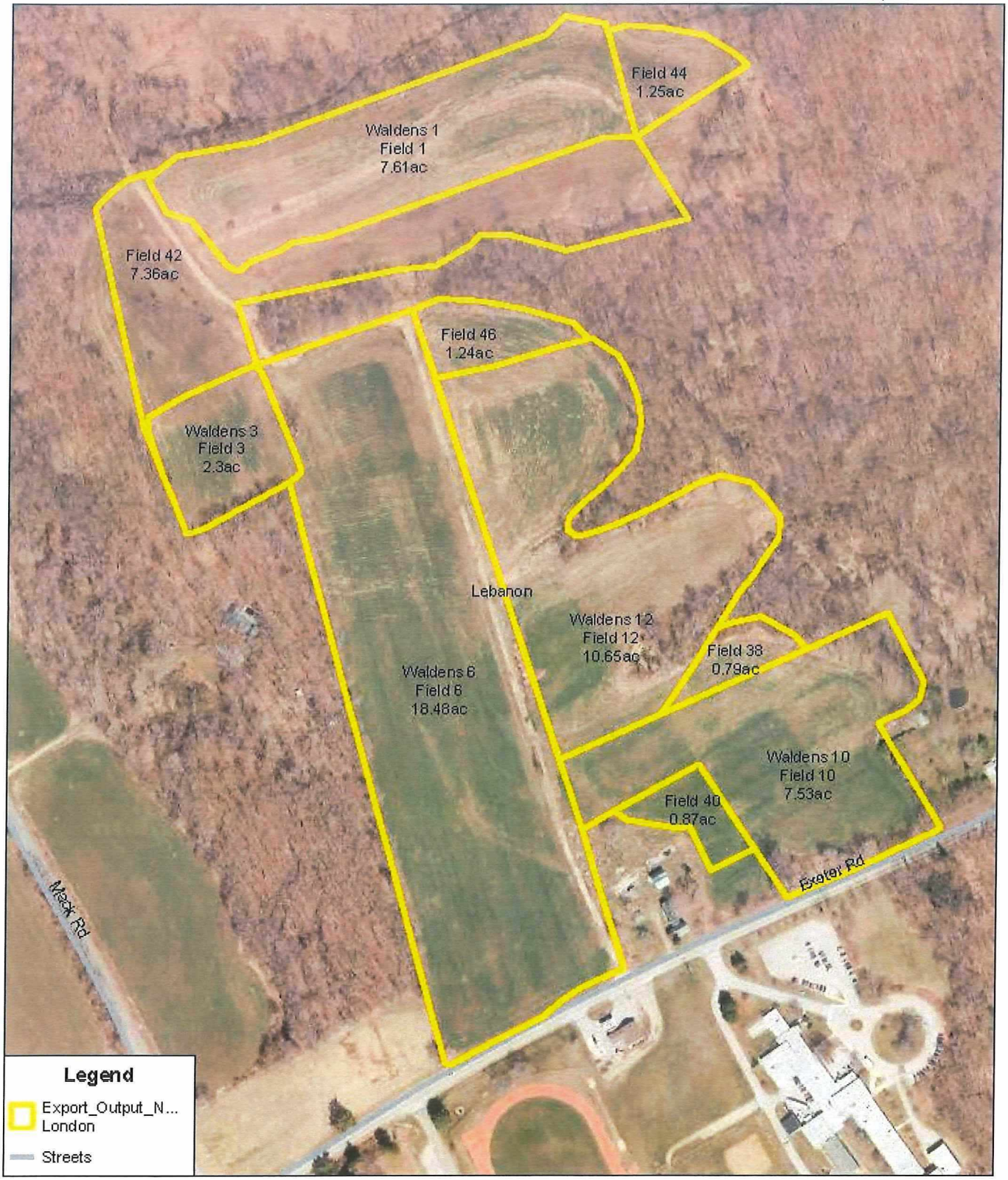
N

Field Location Map: Waldens

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 93/78

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,250

200 0 200 400 600 800 Feet

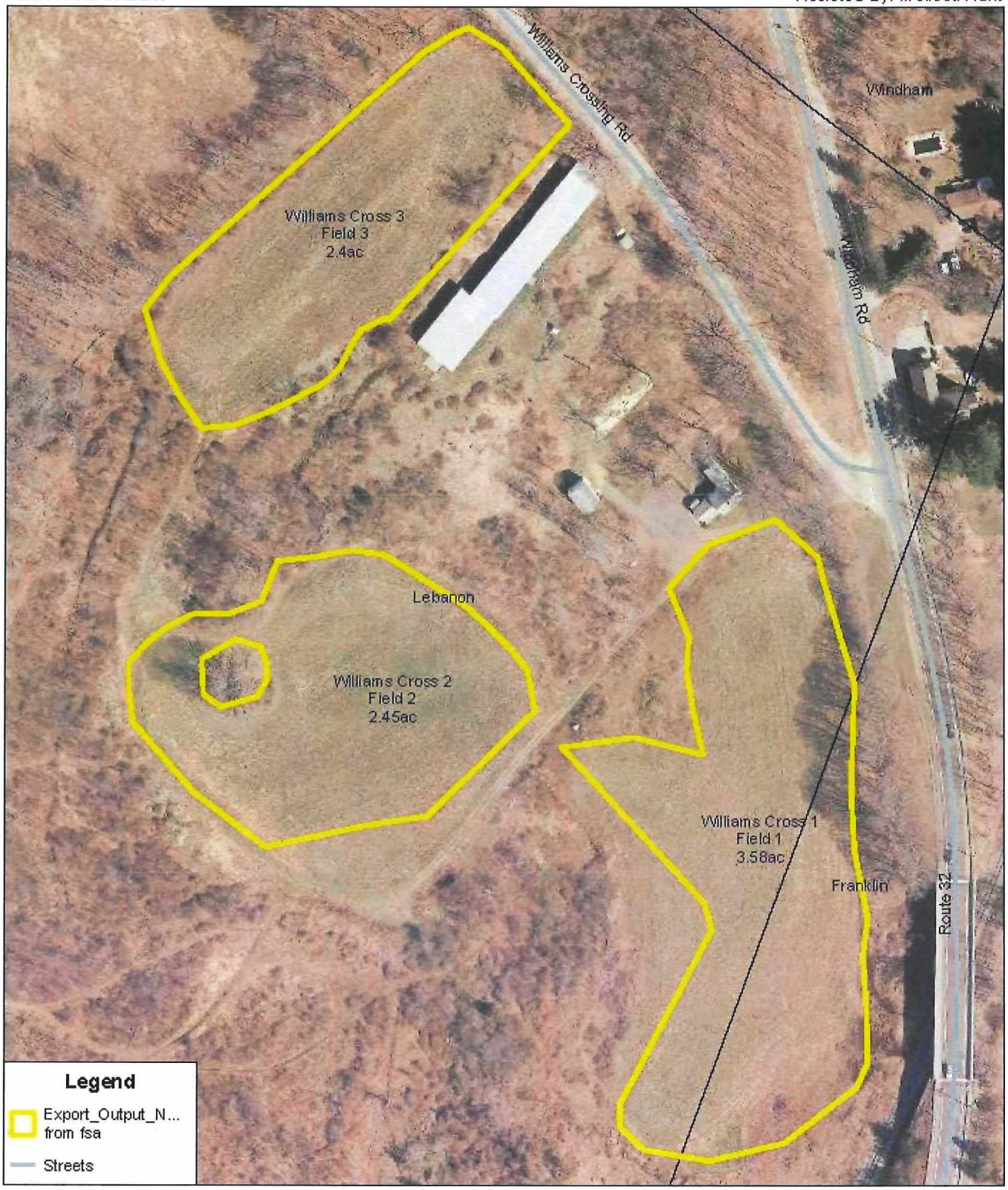
N

Field Location Map: Williams Cross

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 282/647

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,000

90 0 90 180 270 360 Feet

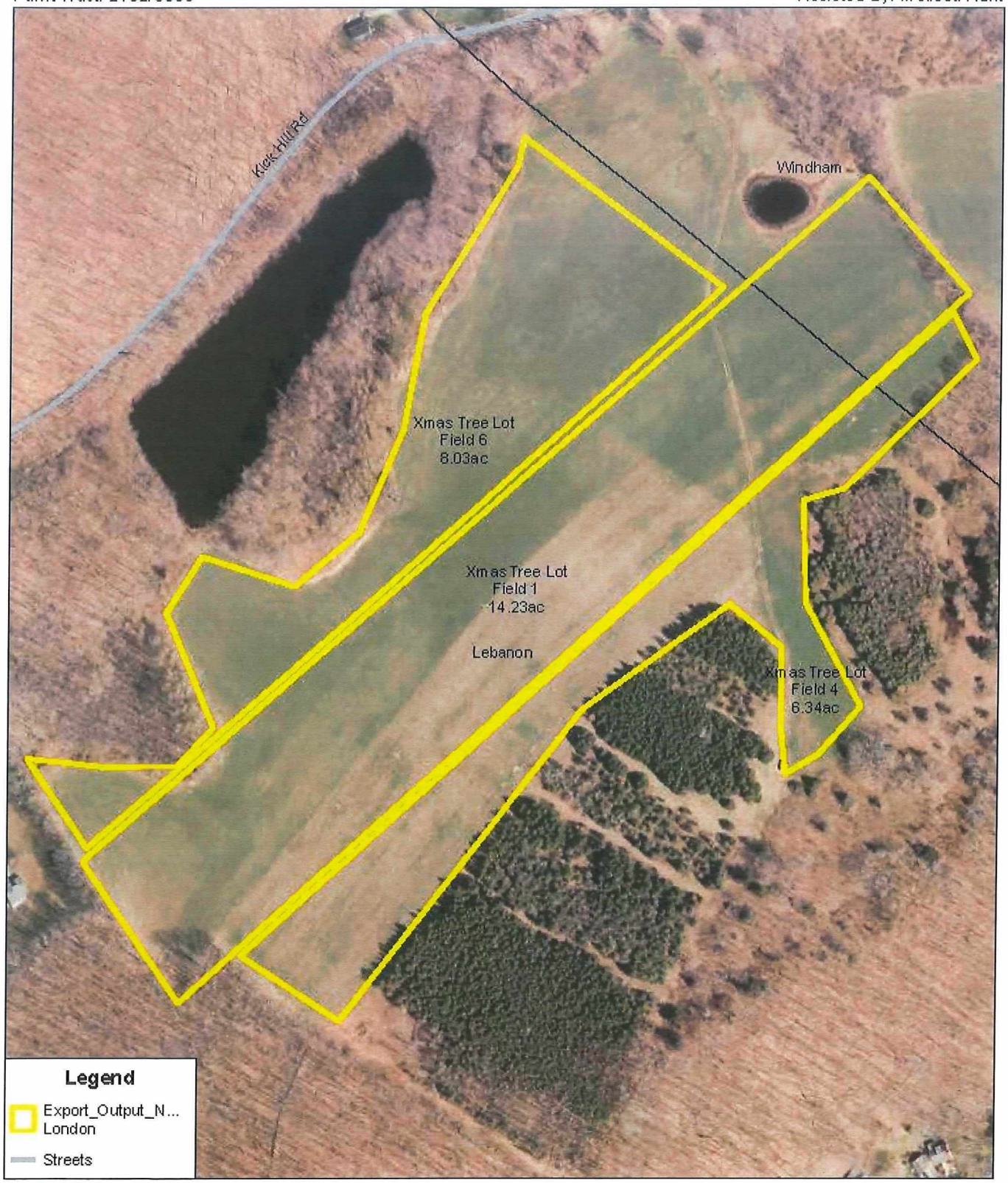
N

Field Location Map:
Xmas Tree Lot

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2182/8558

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

N

Field Location Map:
Young Stock

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/280 & 1774/8157

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

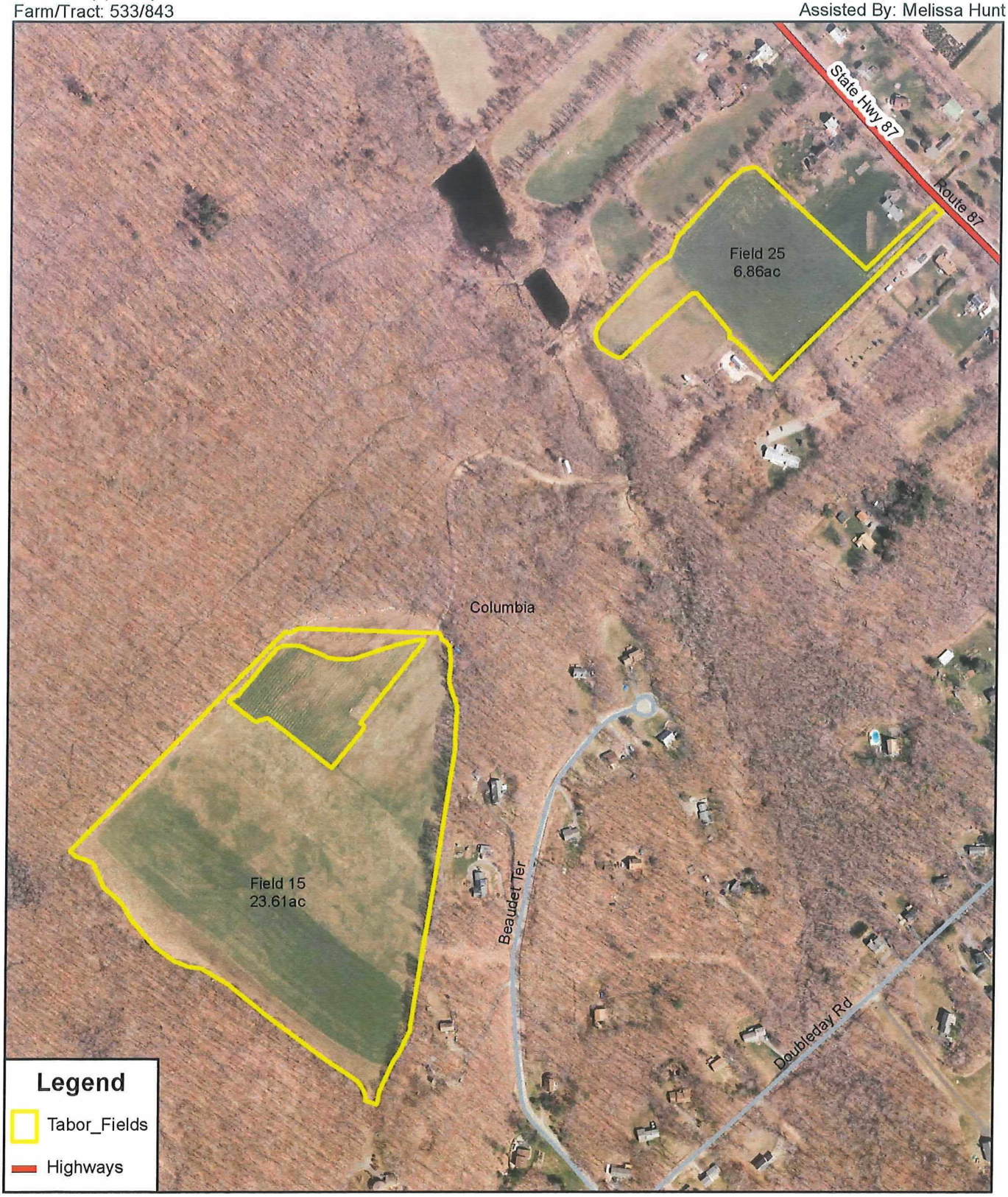
N

Field Location Map: Hearthstone Winery

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 533/843

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,500

260 0 260 520 780 1,040 Feet

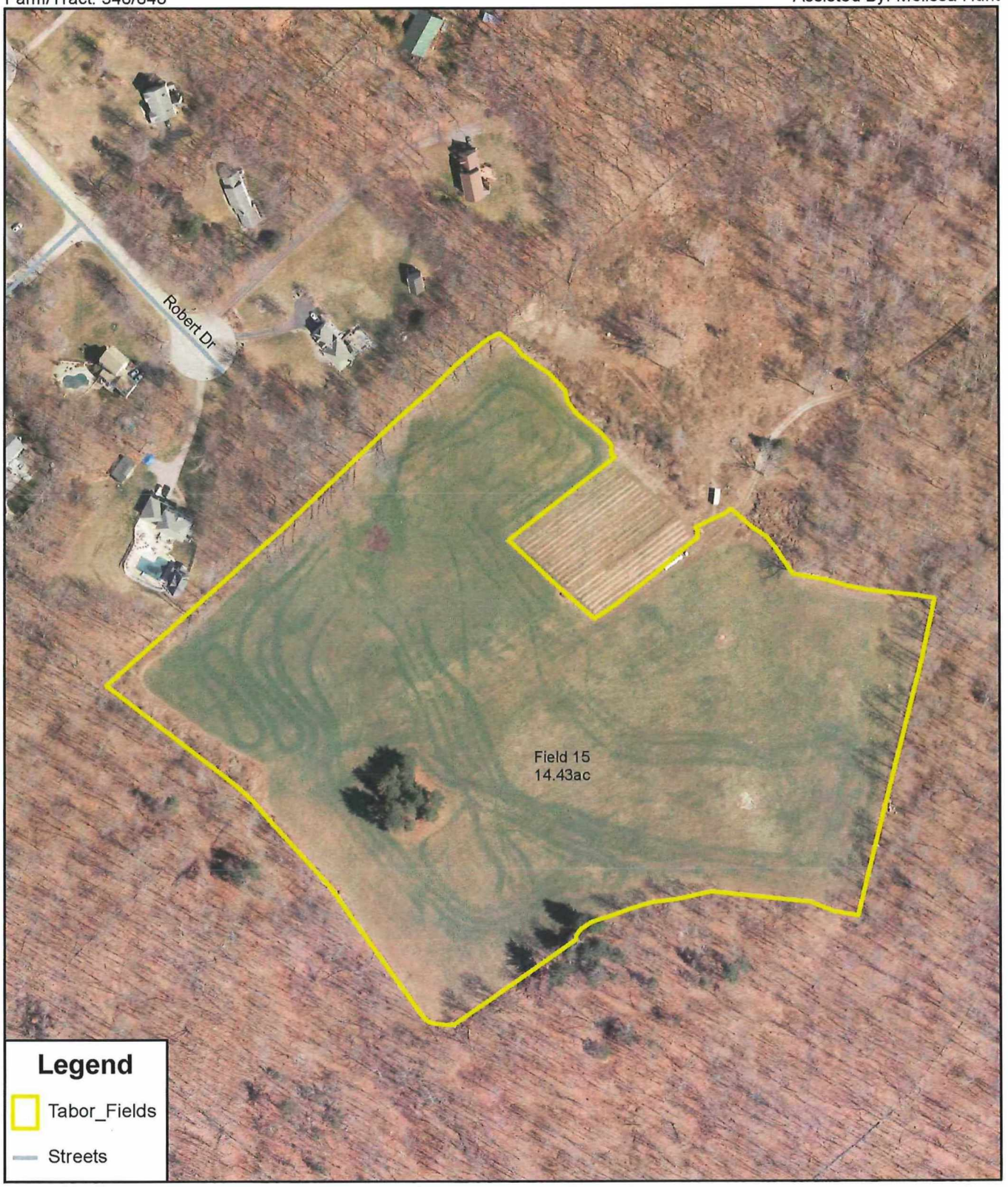
N

Field Location Map: Tabor

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 348/848

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

N

Appendix B

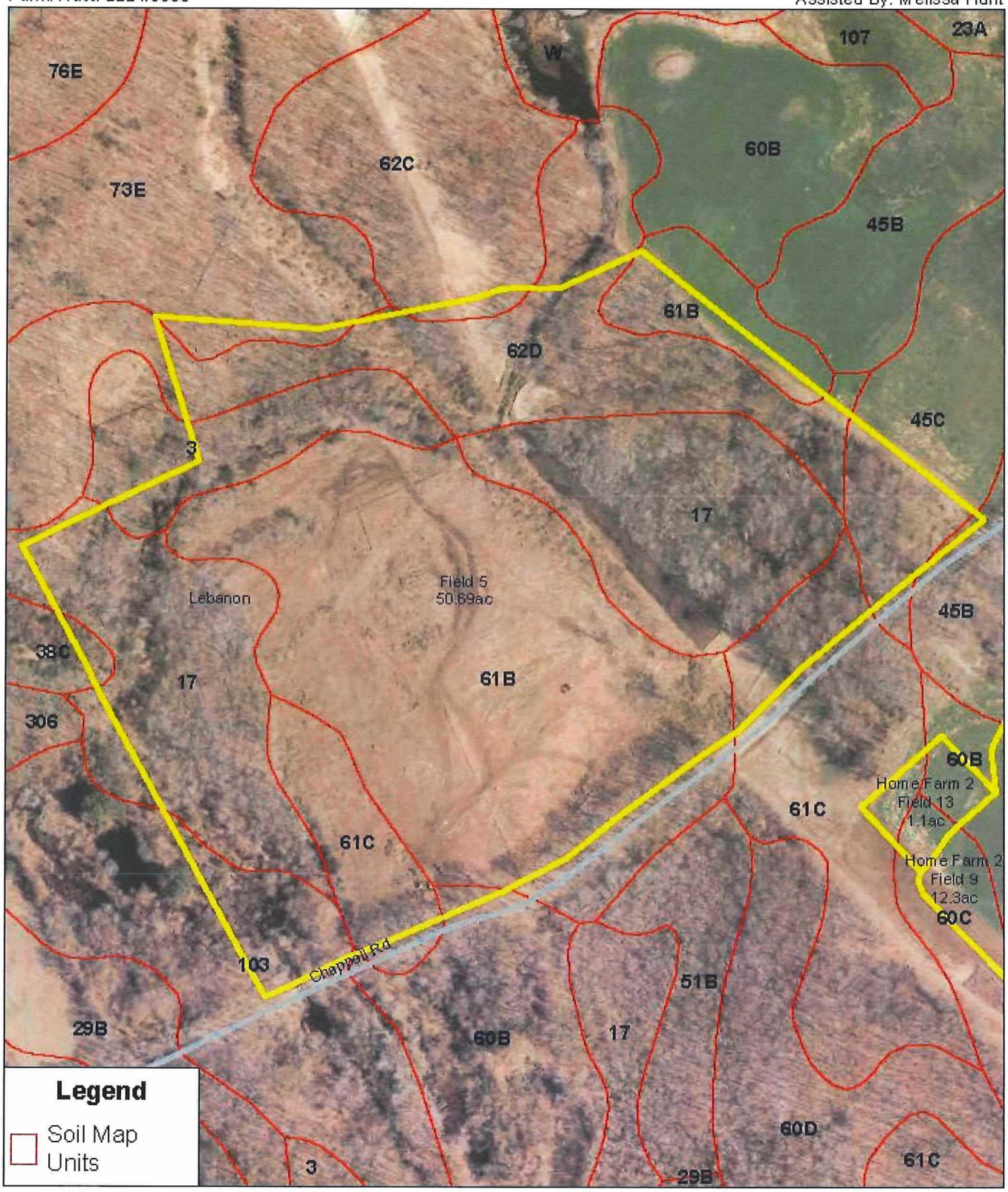
Soil Maps

Soil Map:
Chappell Rd Field

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 2224/8609

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,000

190 0 190 380 570 760 Feet

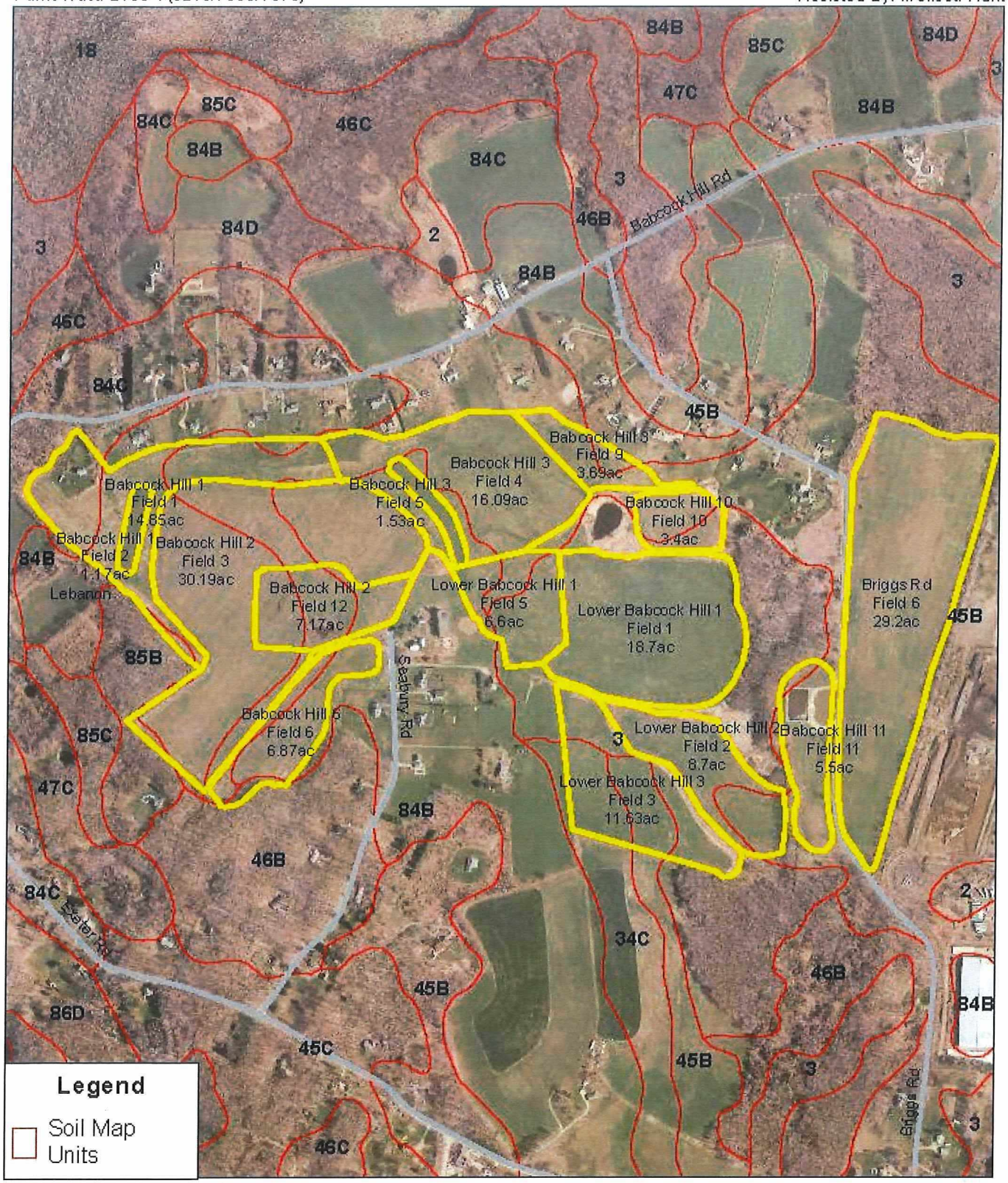
N

Soil Map:
Babcock Hill

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 2183 T(8219/7983/7679)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:9,500

460 0 460 920 1,380 1,840 Feet

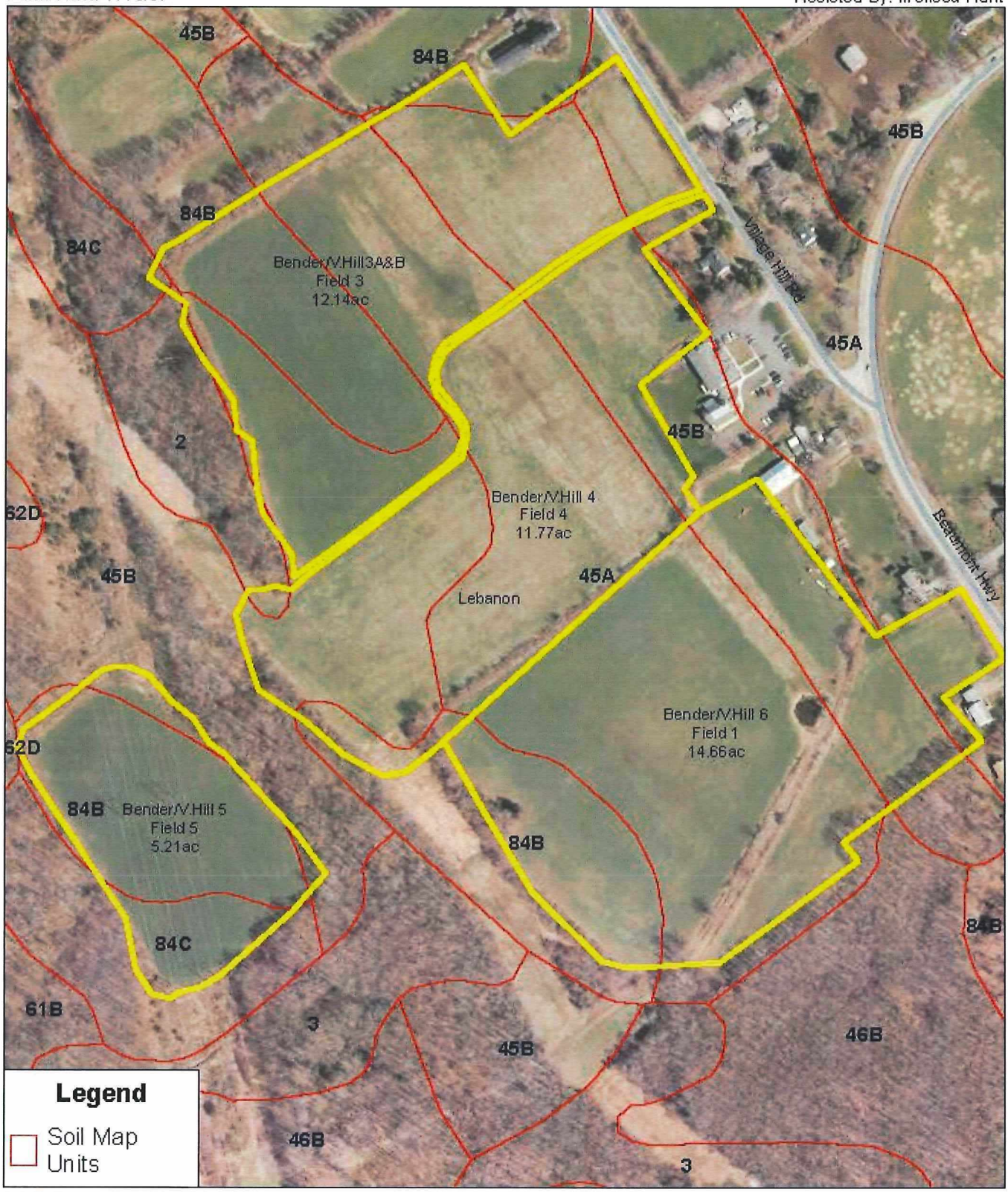
N

Soil Map:
Bender V.Hill

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/67

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

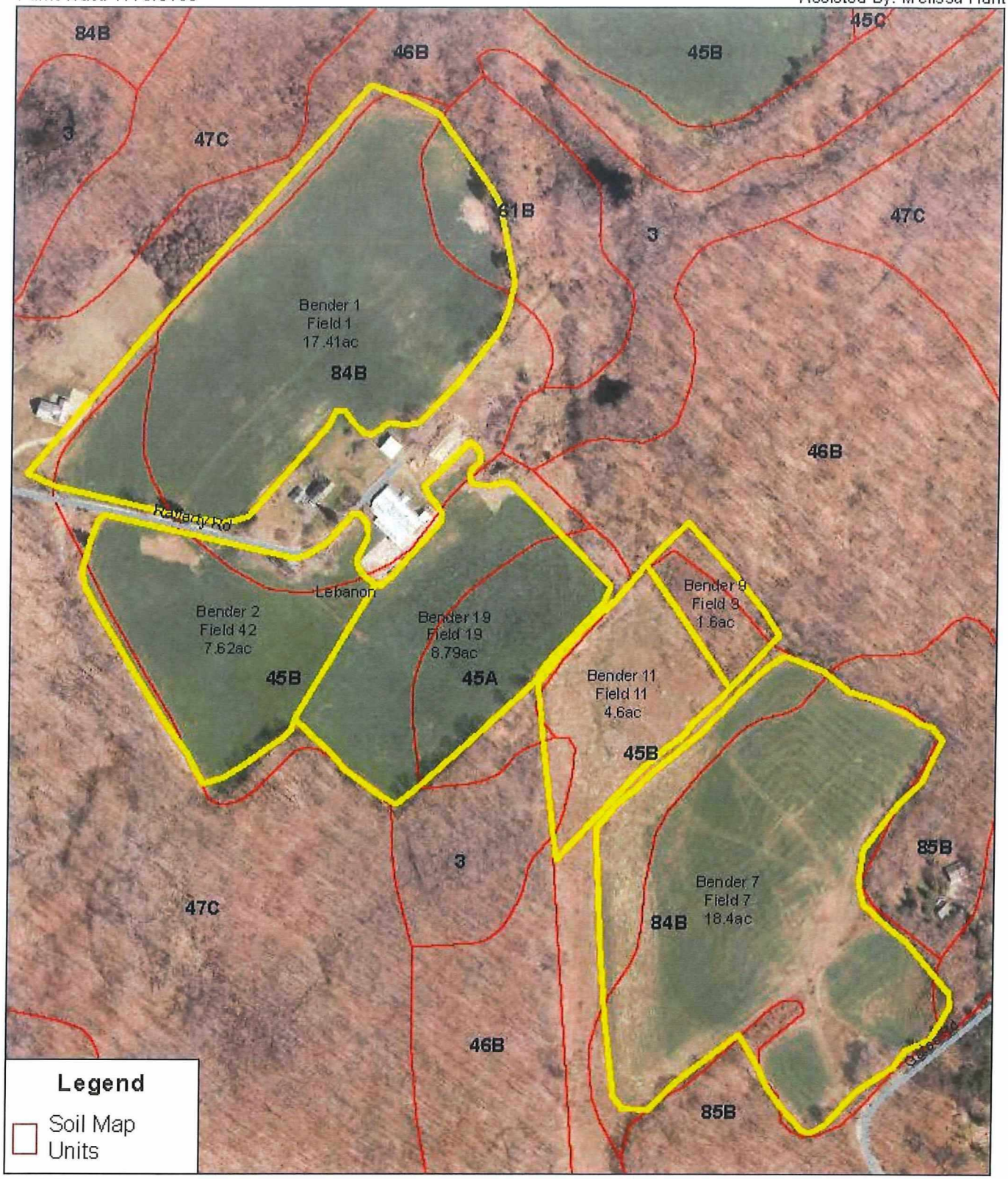
N

Soil Map: Bender

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/8159

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840 Feet

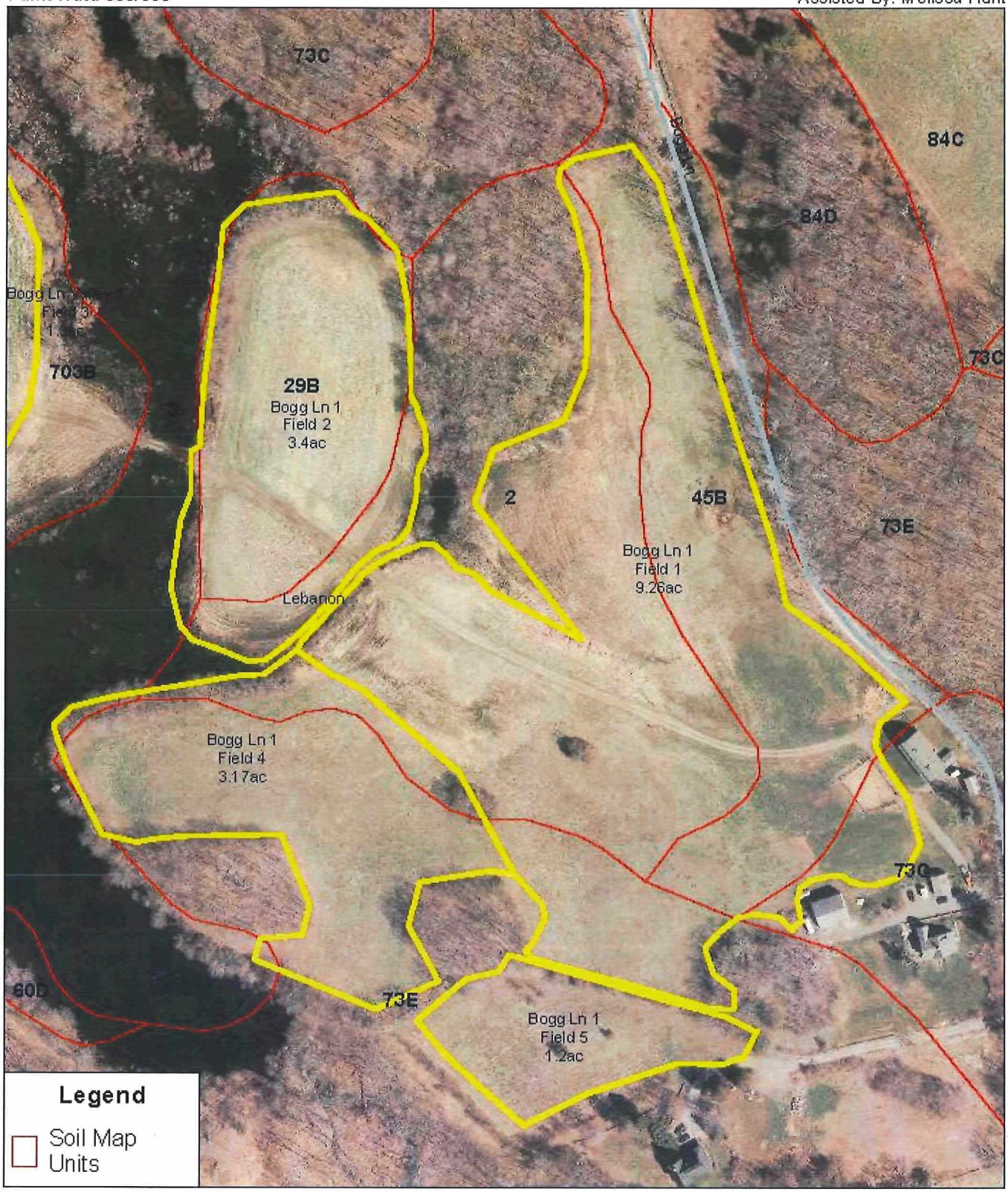
N

Soil Map:
Bogg Ln 1

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,250

100 0 100 200 300 400 Feet

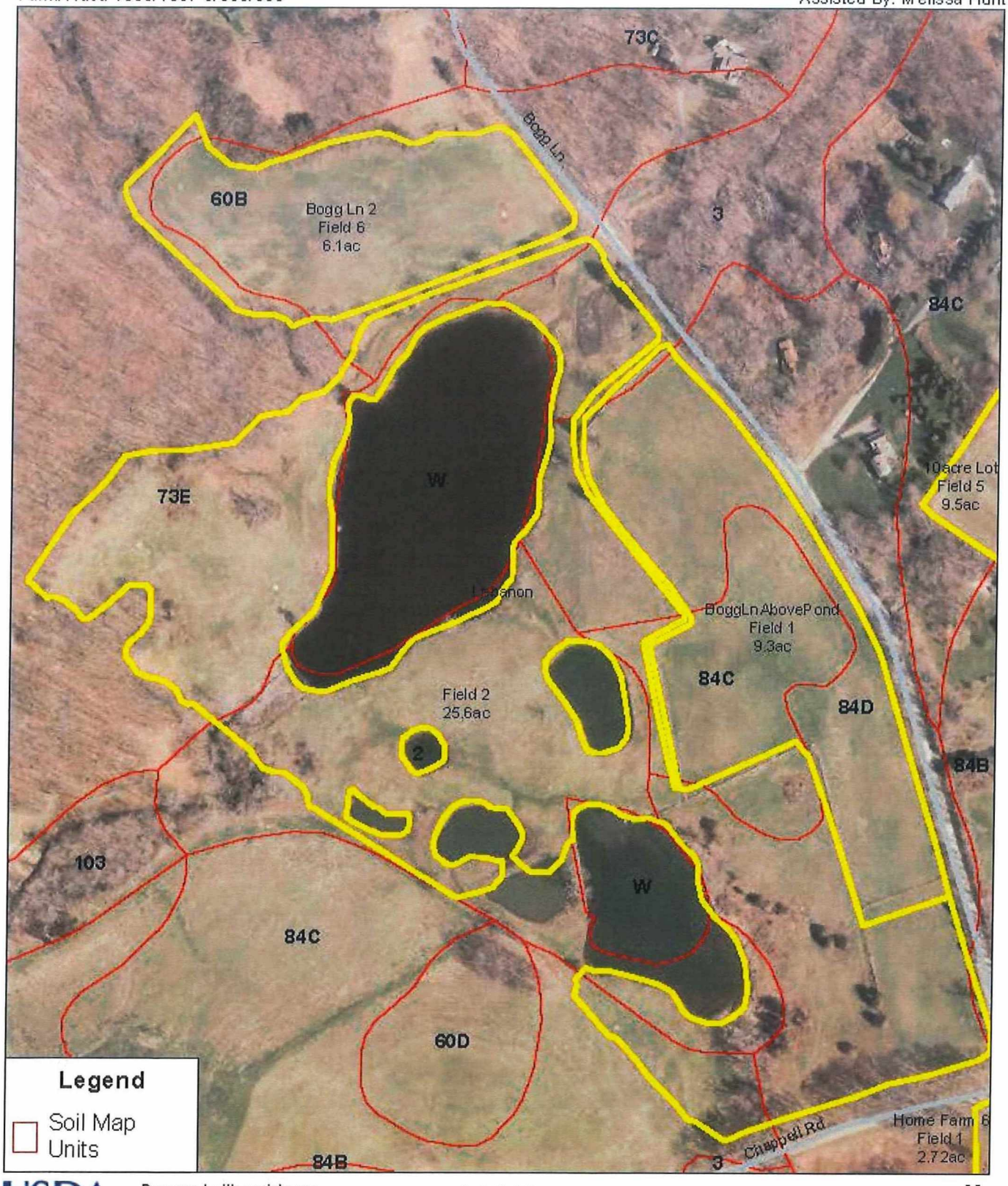
N

Soil Map:
Bogg Ln 2

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1855/1957 & 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,600

170 0 170 340 510 680 Feet

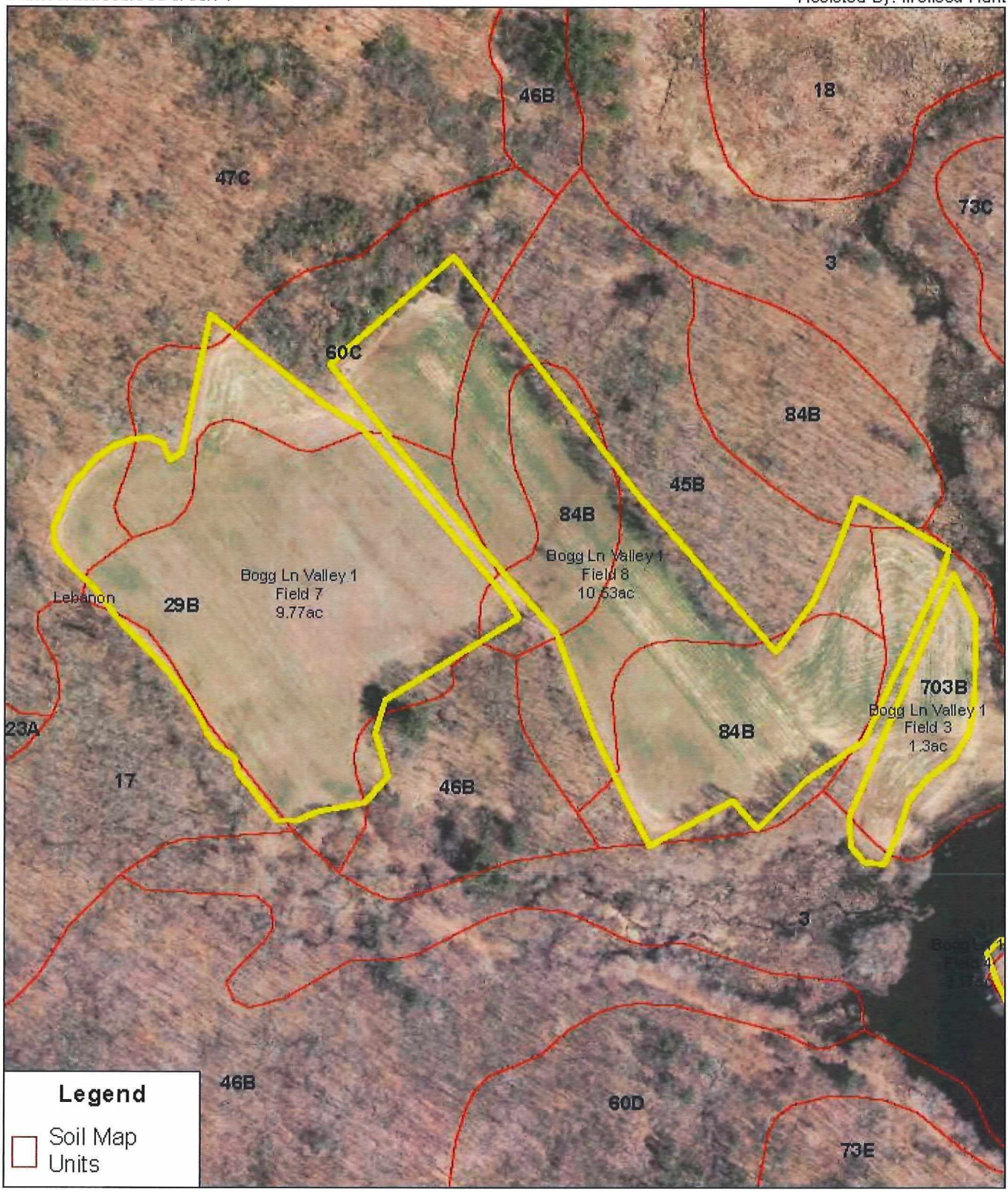
N

Soil Map:
Bogg Ln Valley

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract:869/958 & 89/74

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

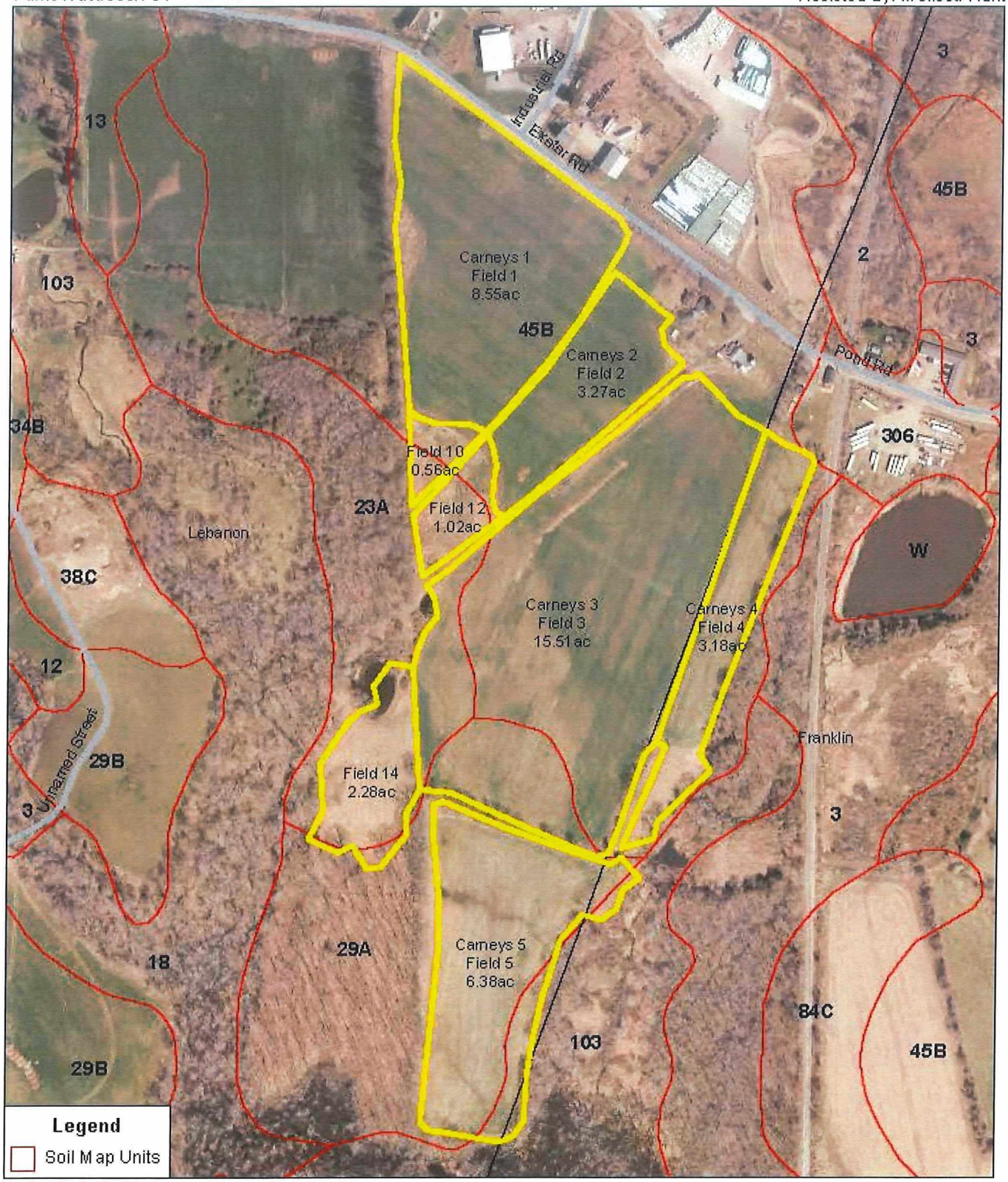
N

Soil Map: Carneys

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 366/704

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840 Feet

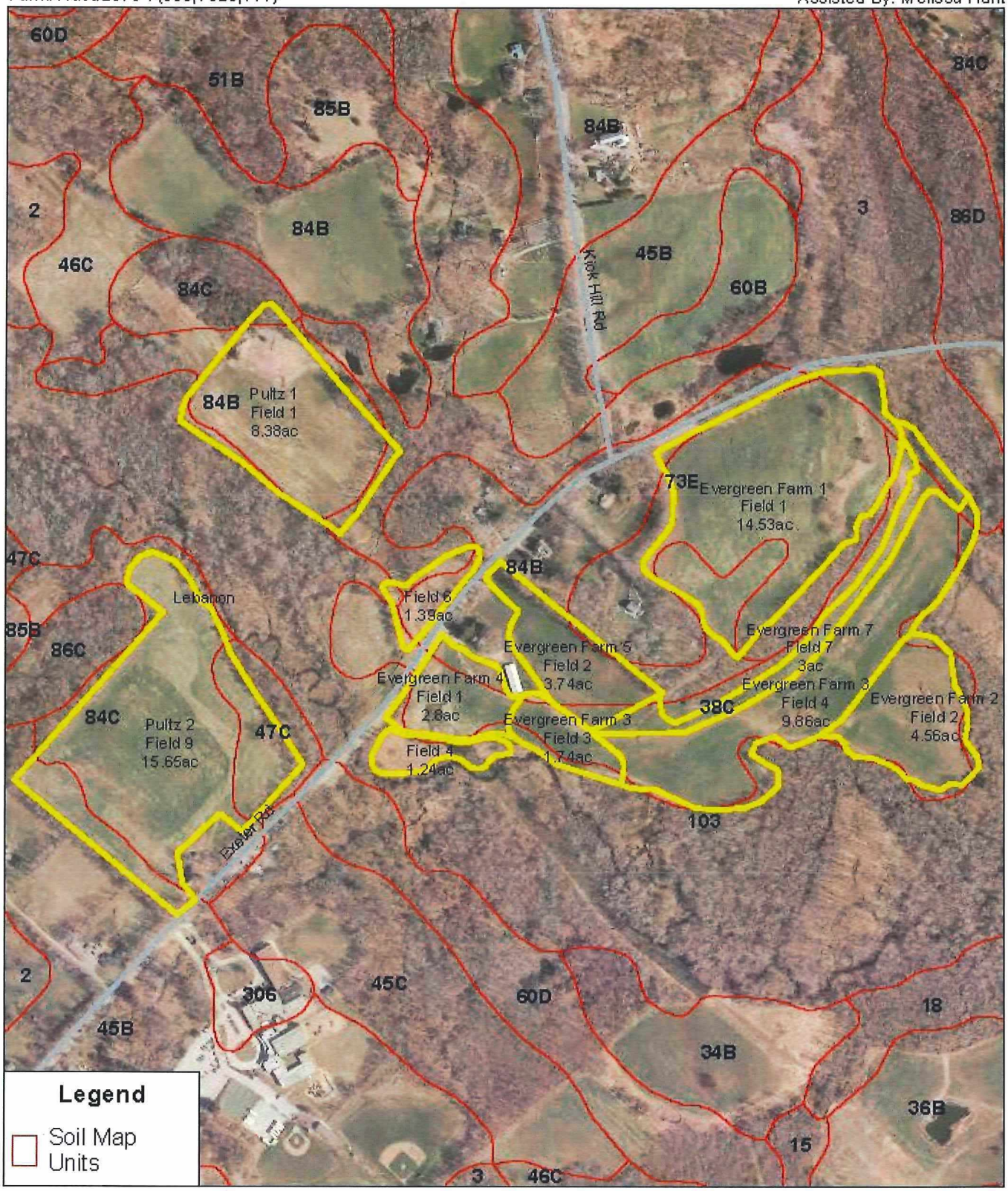
N

Soil Map:
Evergreen/Pultz

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:2079 T(688,7523,117)

Agency: USDA NRCS
Assisted By: Melissa Hunt

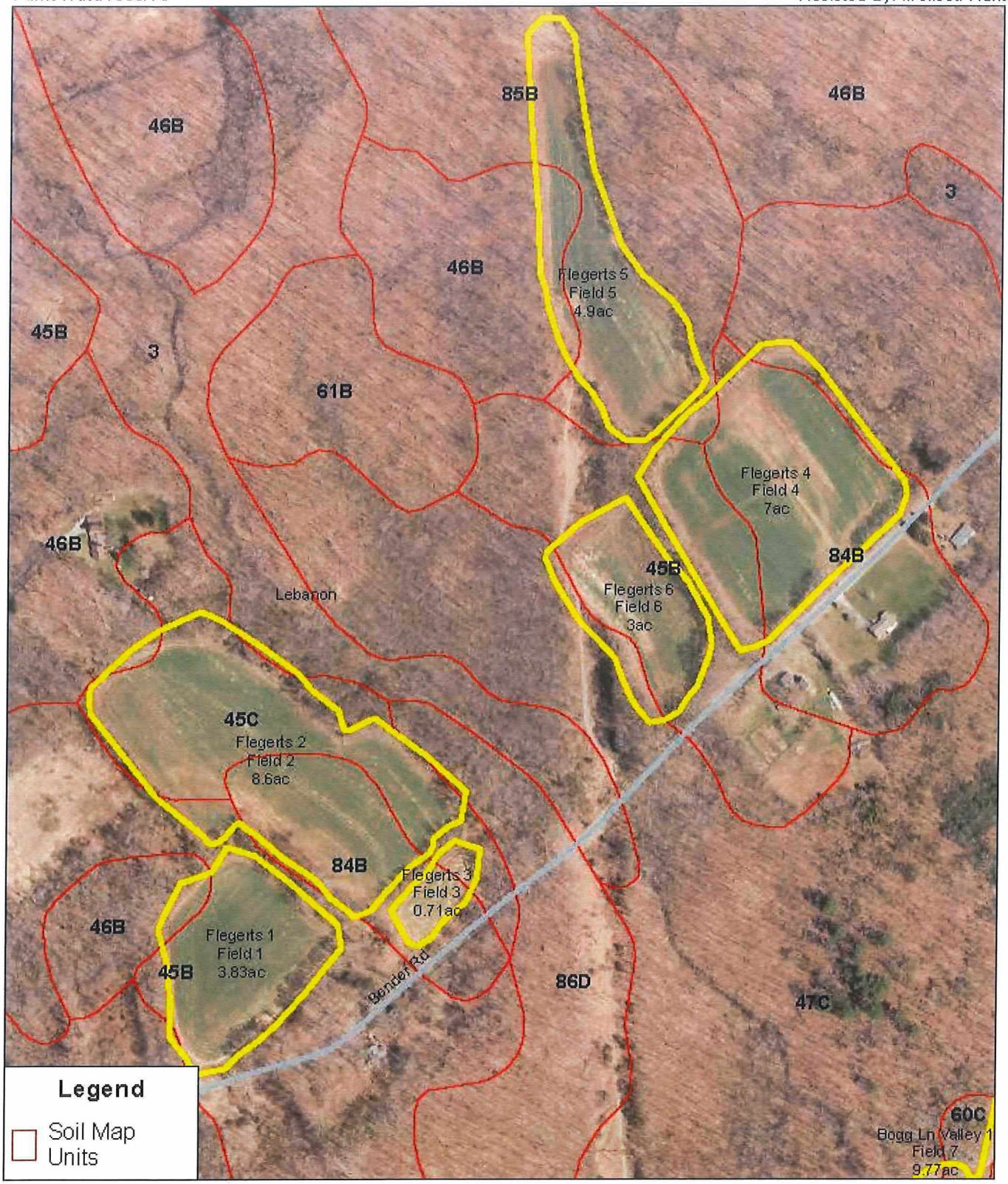


Soil Map: Flegerts

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:1008/73

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,300

200 0 200 400 600 800 Feet

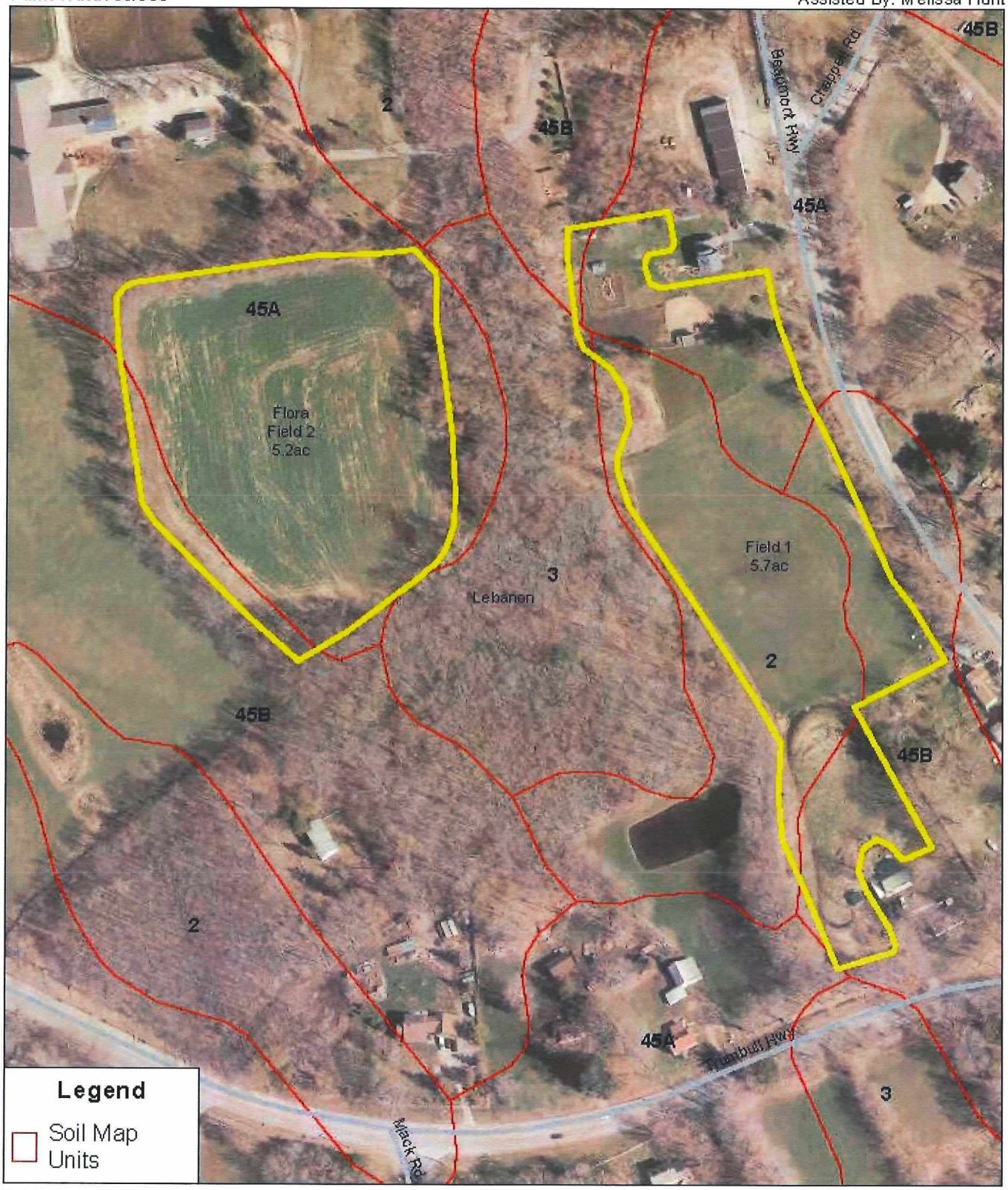
N

Soil Map:
Flora

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:768/560

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

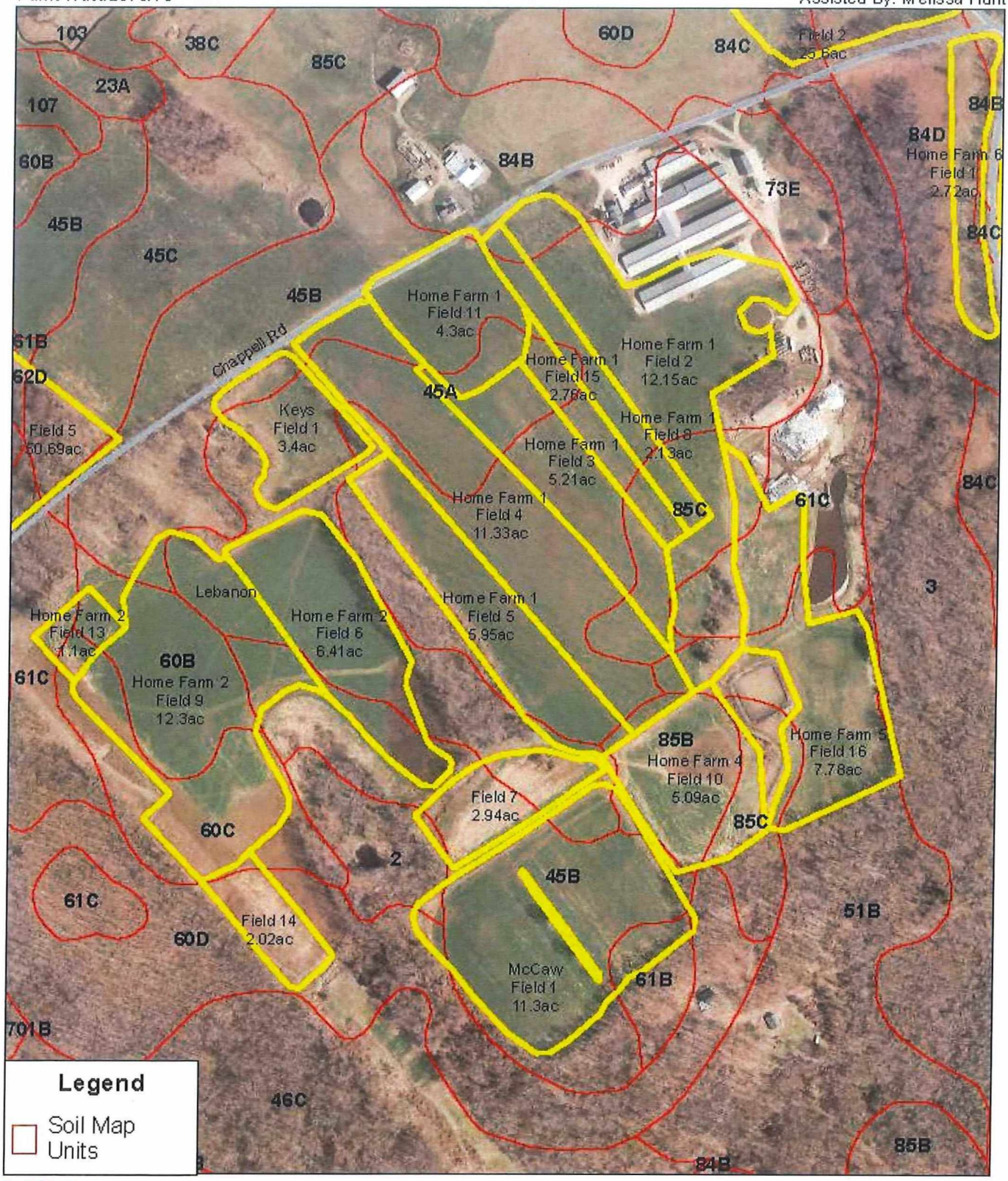
N

Soil Map:
Home Farm

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/76

Agency: USDA NRCS
Assisted By: Melissa Hunt



Legend

Soil Map Units

USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,750

275 0 275 550 825 1,100 Feet

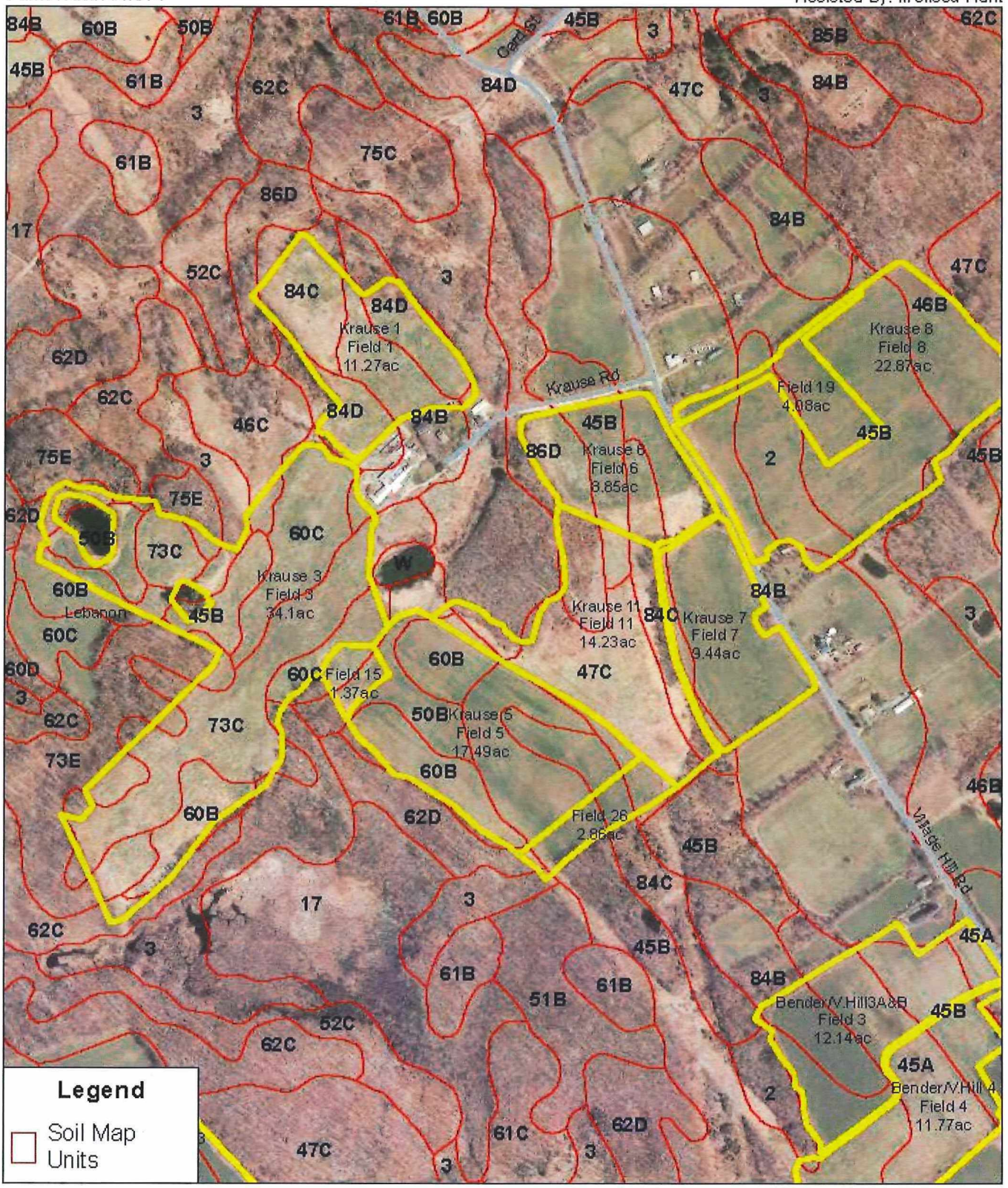
N

Soil Map: Krause

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:781/574

Agency: USDA NRCS
Assisted By: Melissa Hunt



Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,750

375 0 375 750 1,125 1,500 Feet

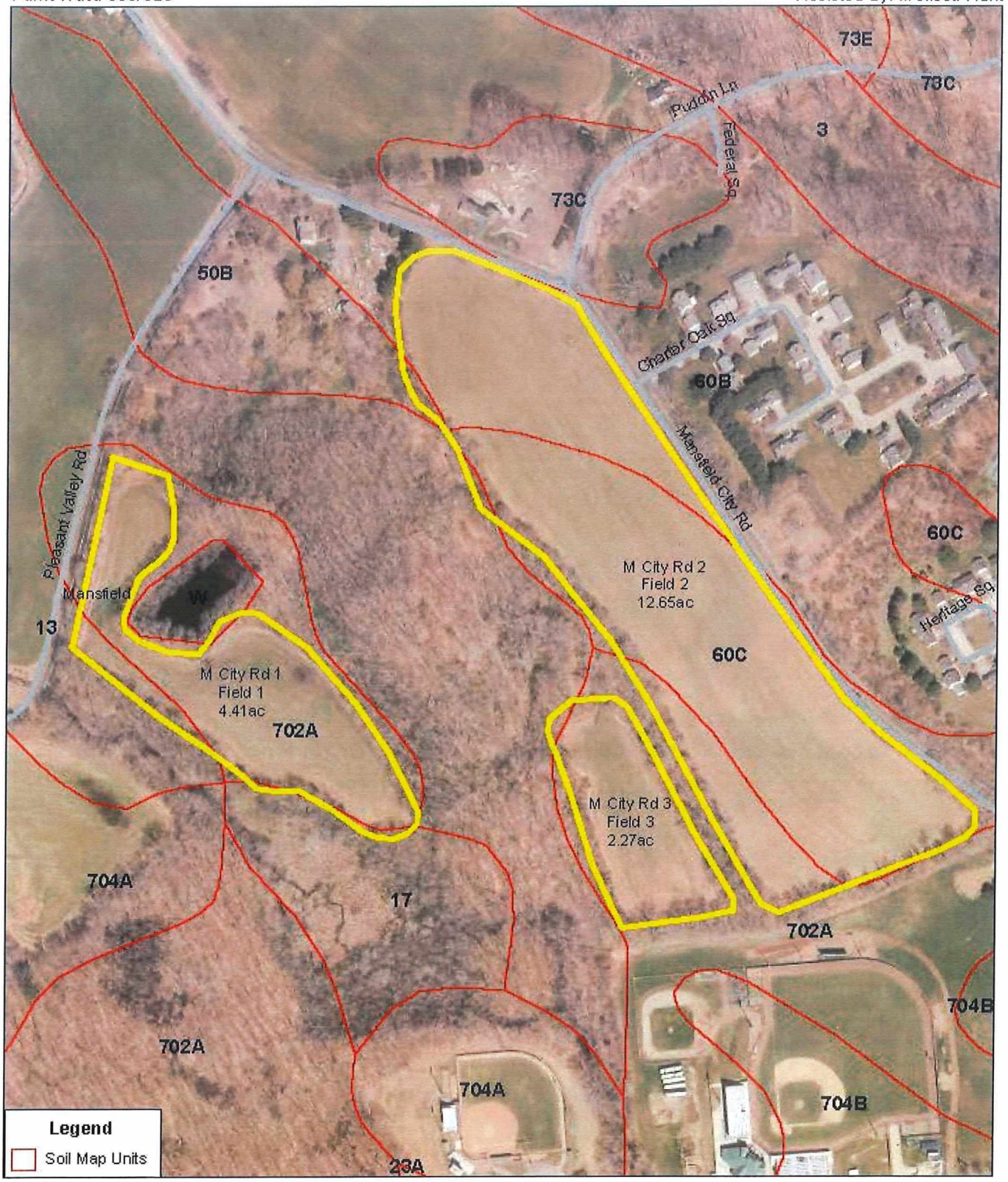
N

Soil Map:
M City Rd

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 906/928

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

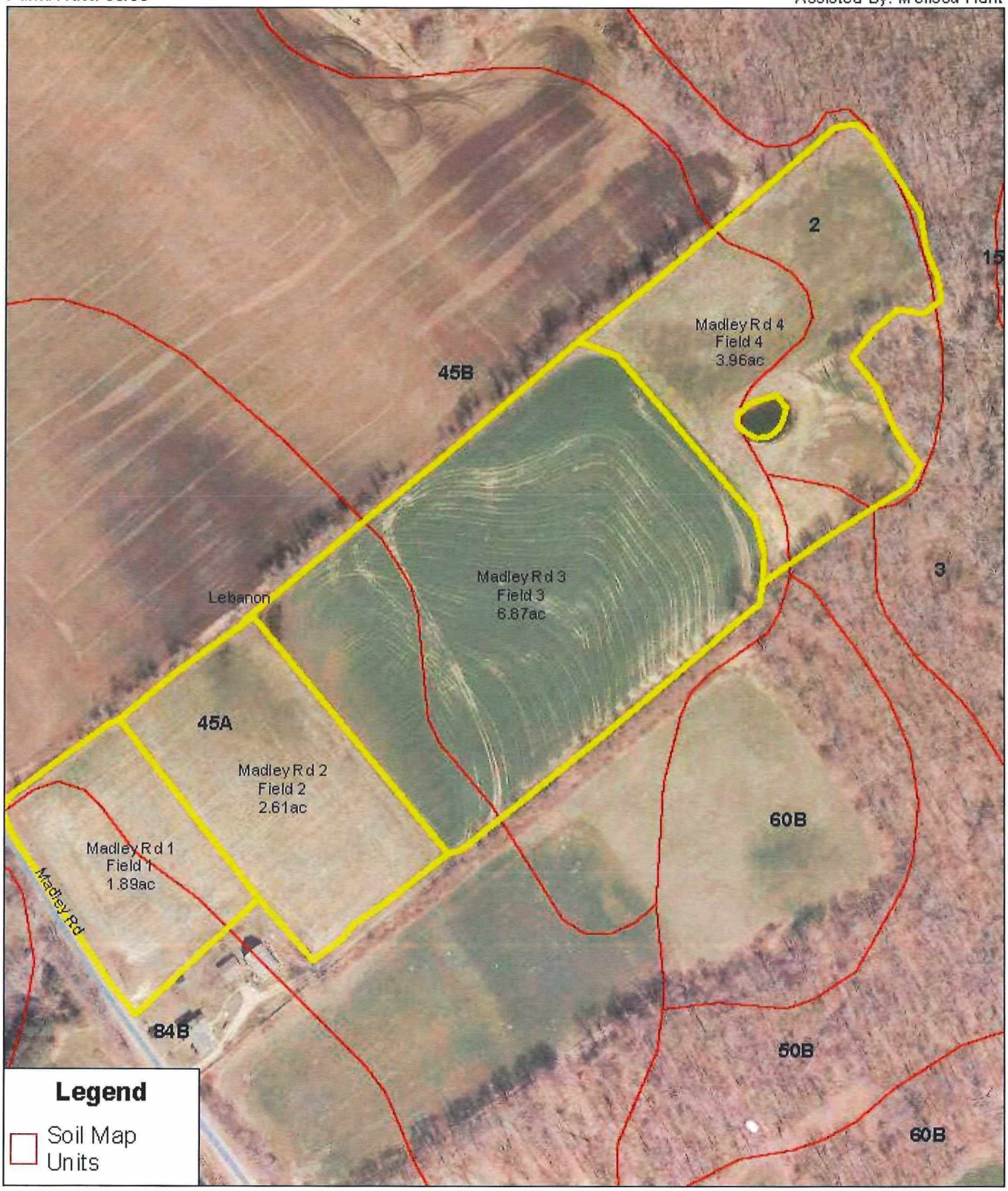
N

Soil Map:
Madley Rd

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 90/86

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

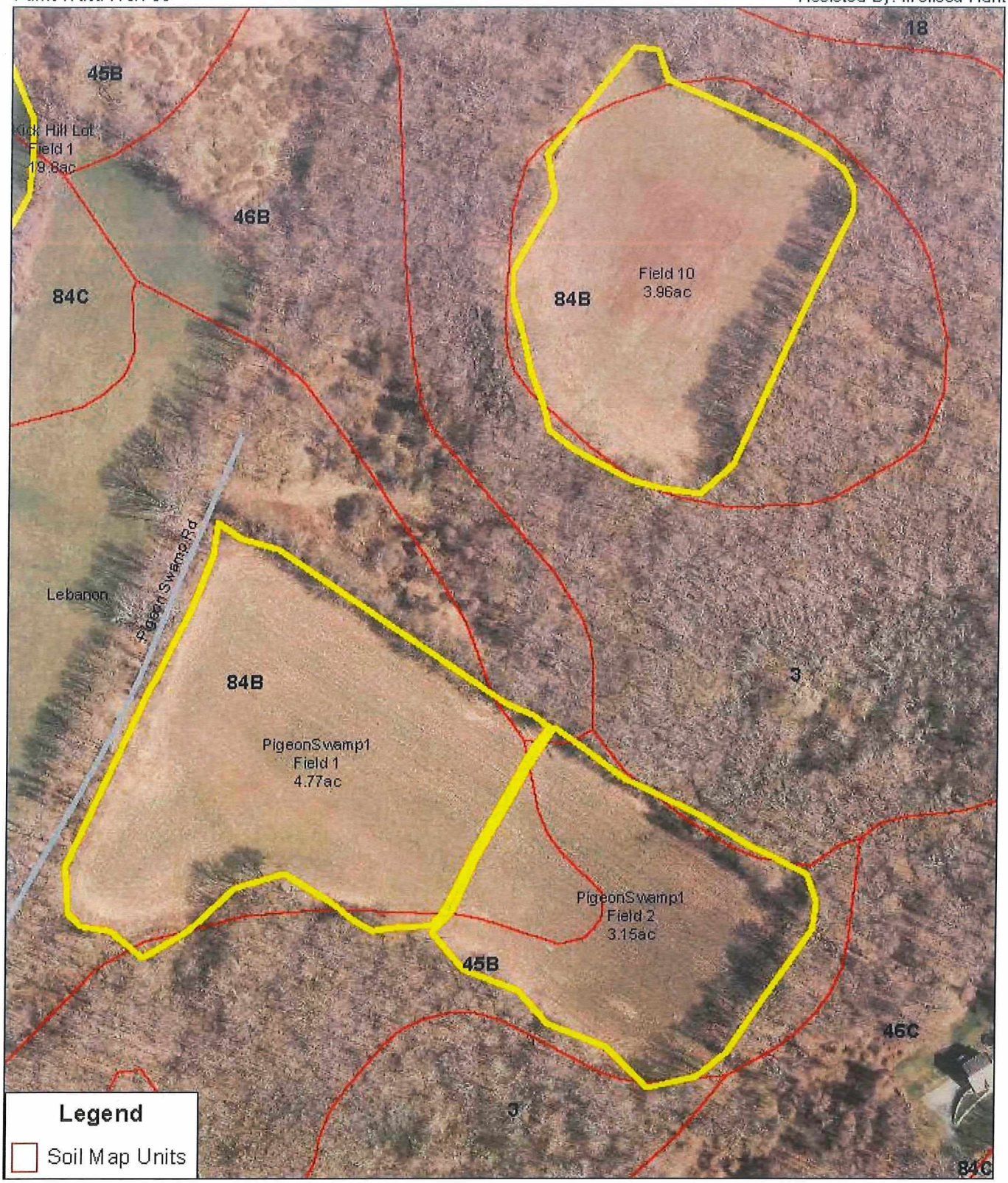
N

Soil Map:
Pigeon Swamp

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:413/759

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,250

100 0 100 200 300 400 Feet

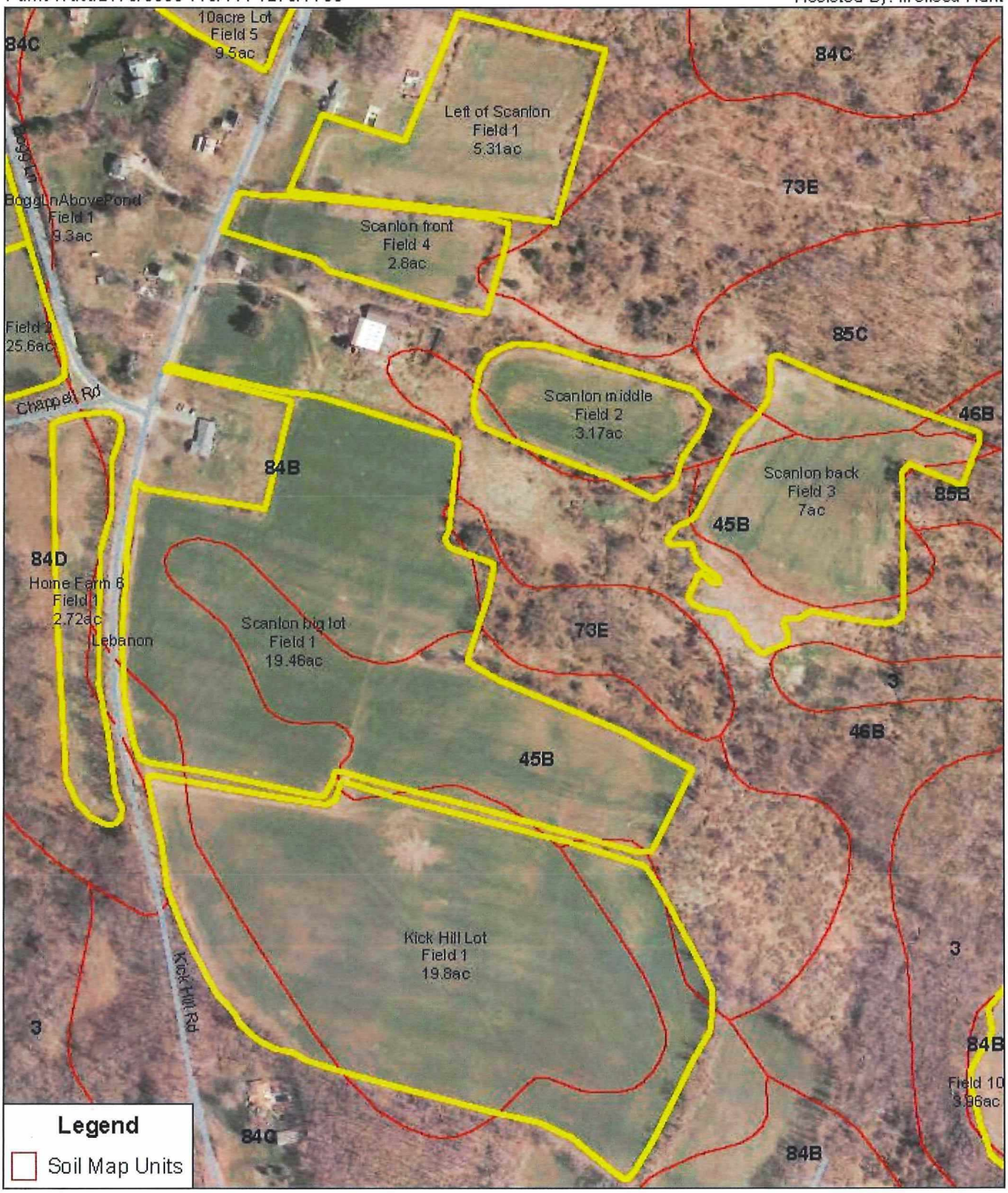
N

Soil Map: Scanlon

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2179/8555 119/111 1273/7766

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,250

200 0 200 400 600 800 Feet

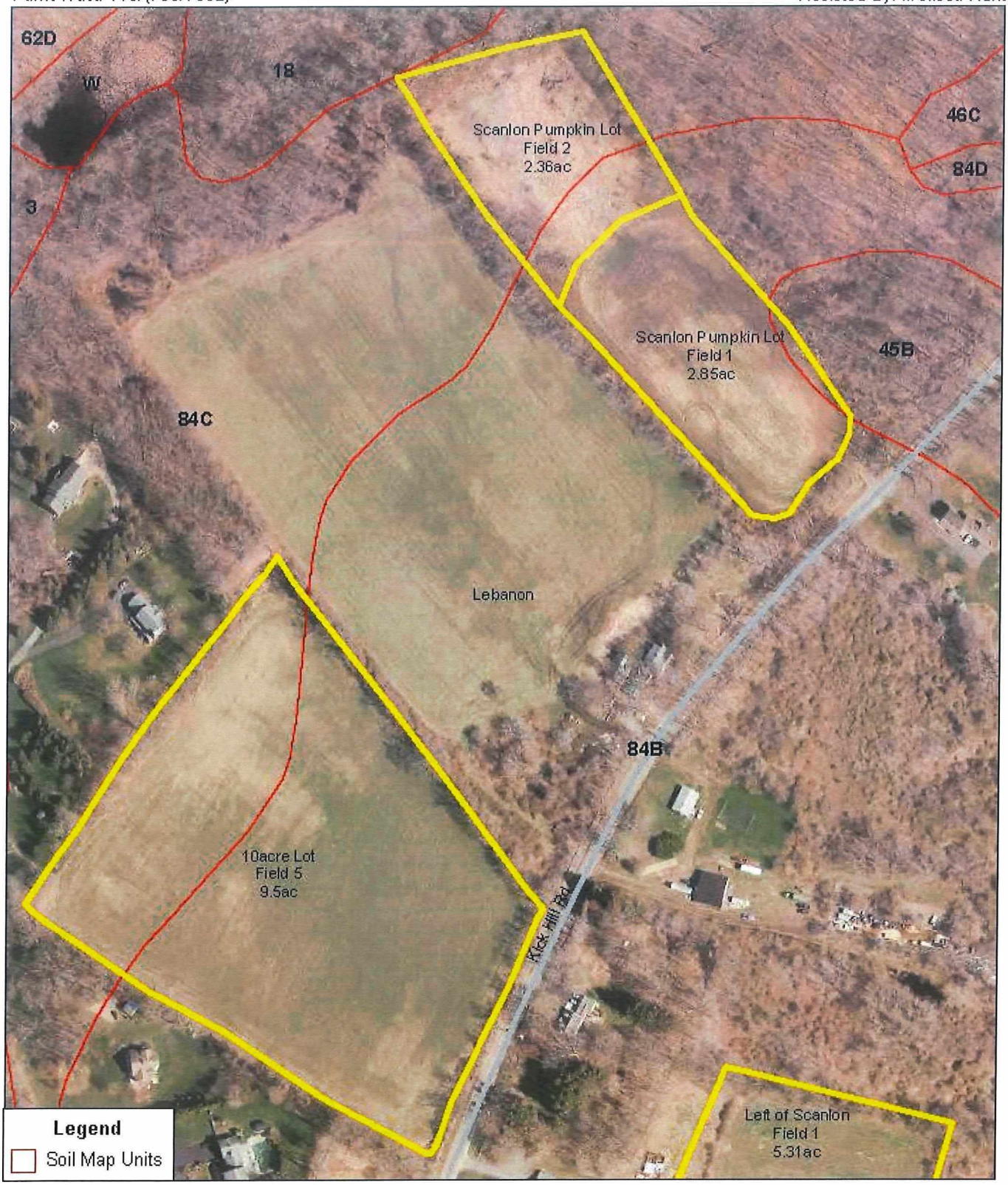
N

Soil Map:
Scanlon Pumpkin

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 119/(756/7532)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,750

130 0 130 260 390 520 Feet

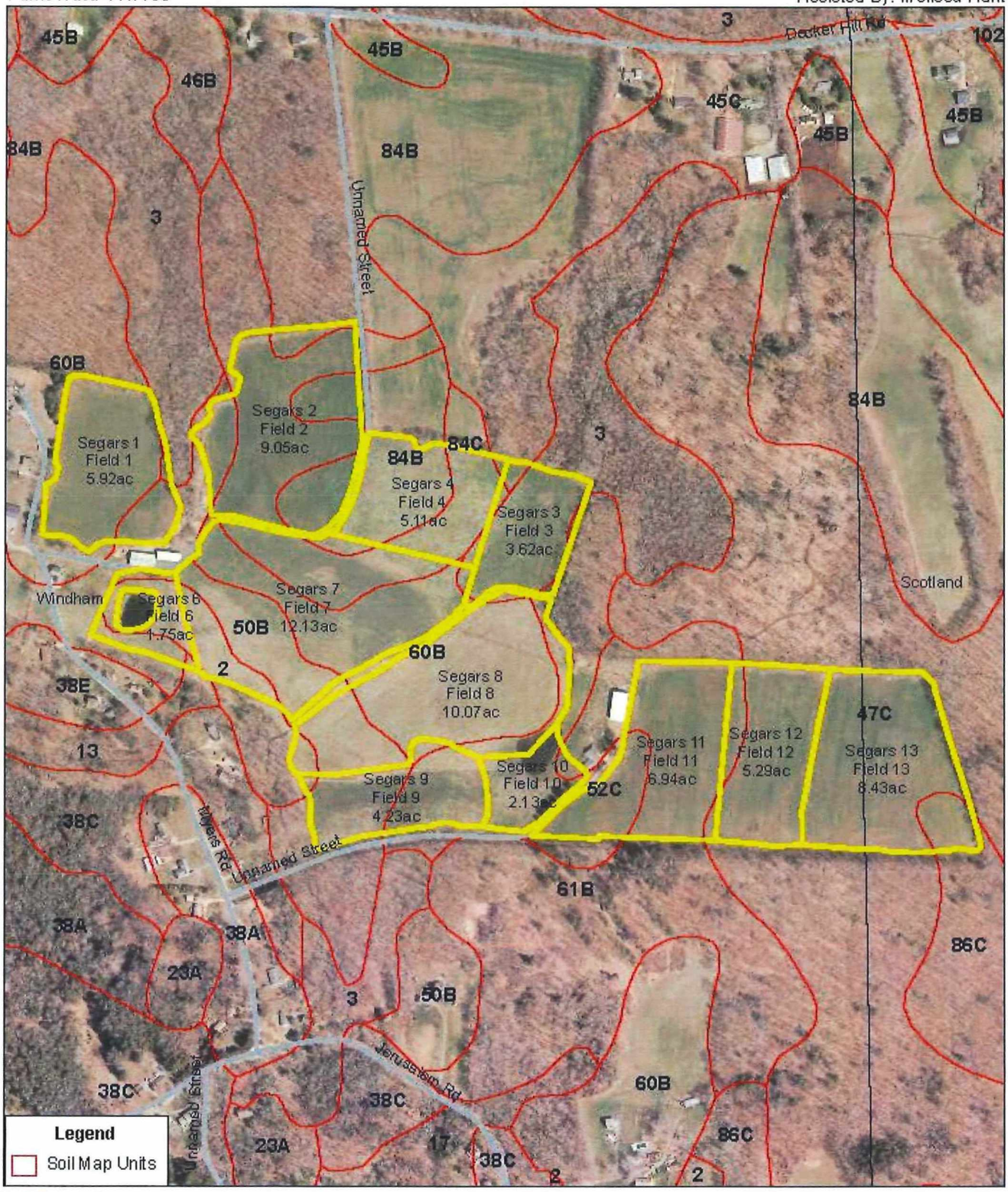
N

Soil Map: Segars

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 441/135

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:6,500

310 0 310 620 930 1,240 Feet

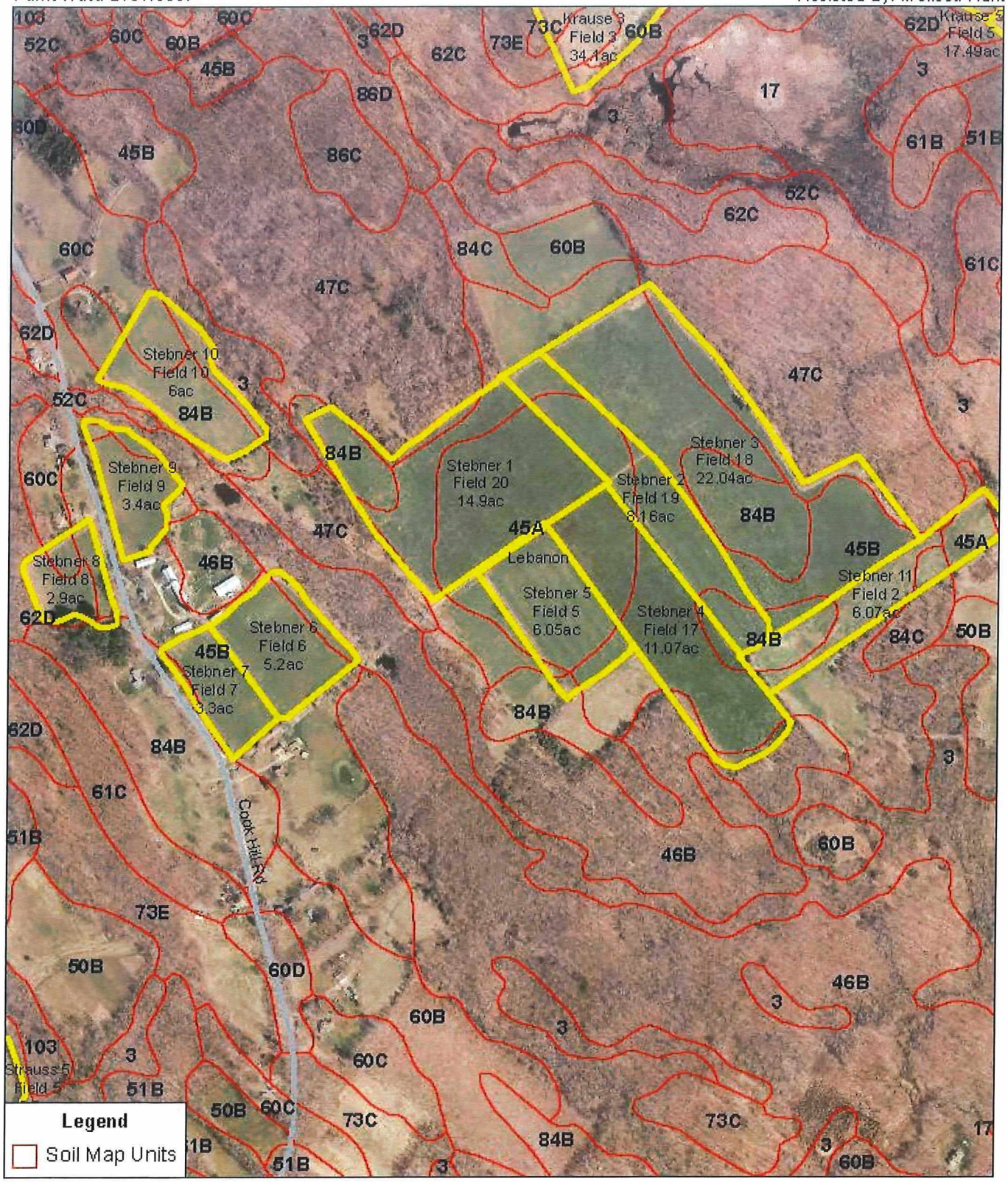
N

Soil Map: Stebner

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2181/8557

Agency: USDA NRCS
Assisted By: Melissa Hunt



Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,600

360 0 360 720 1,080 1,440 Feet

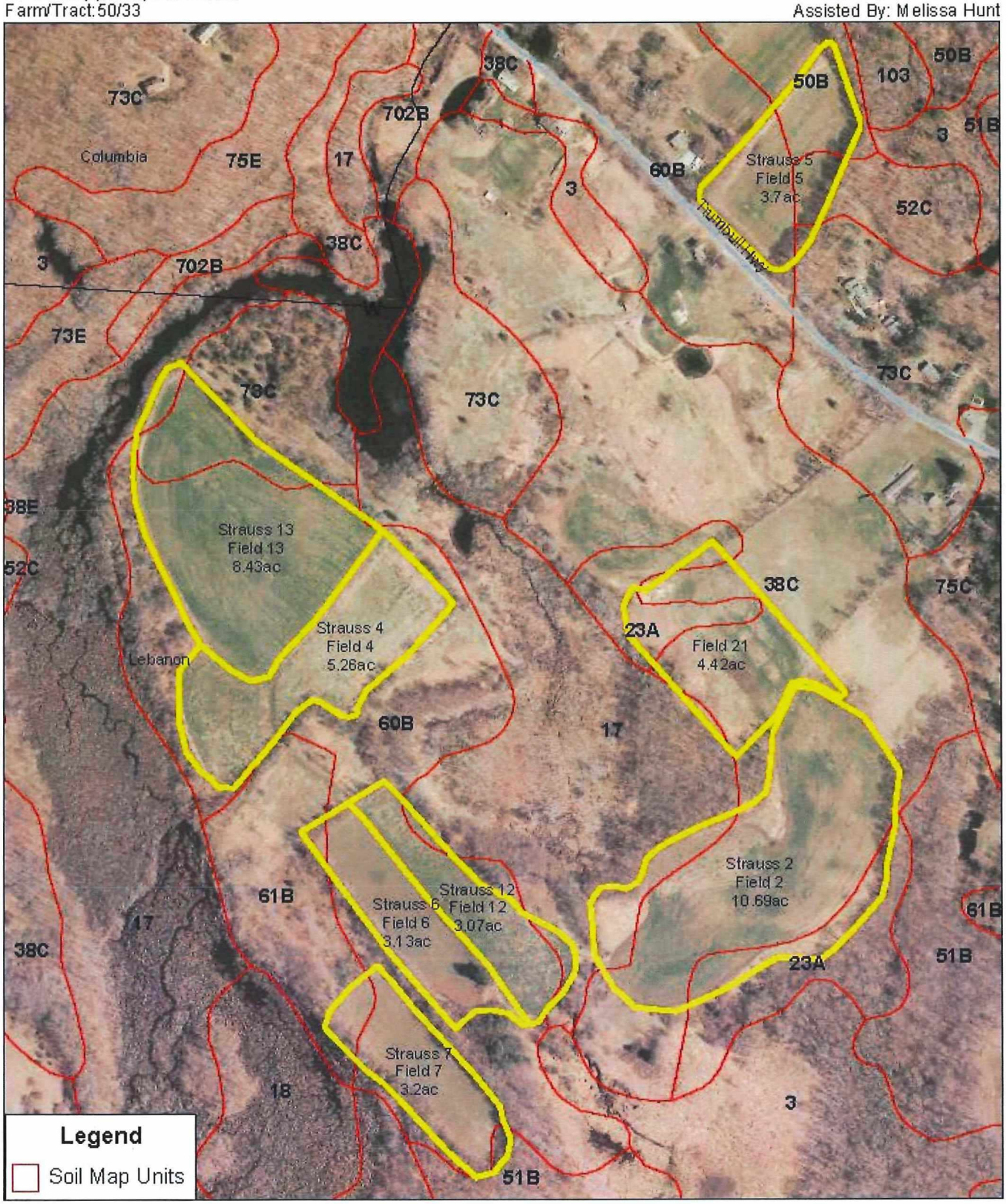
N

Soil Map:
Strauss

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 50/33

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,000

240 0 240 480 720 960 Feet

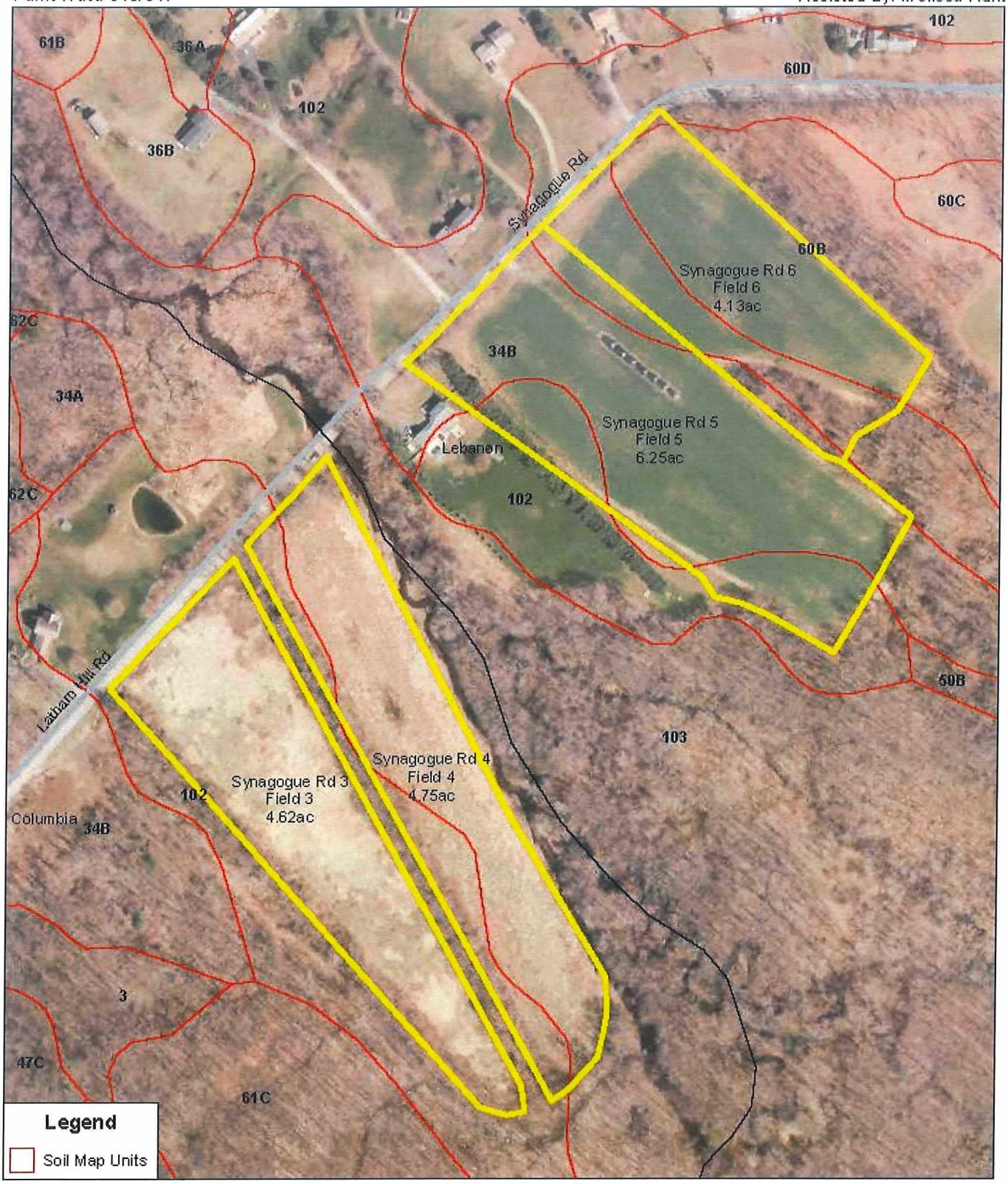
N

Soil Map:
Synagogue Rd

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 349/847

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,000

140 0 140 280 420 560 Feet

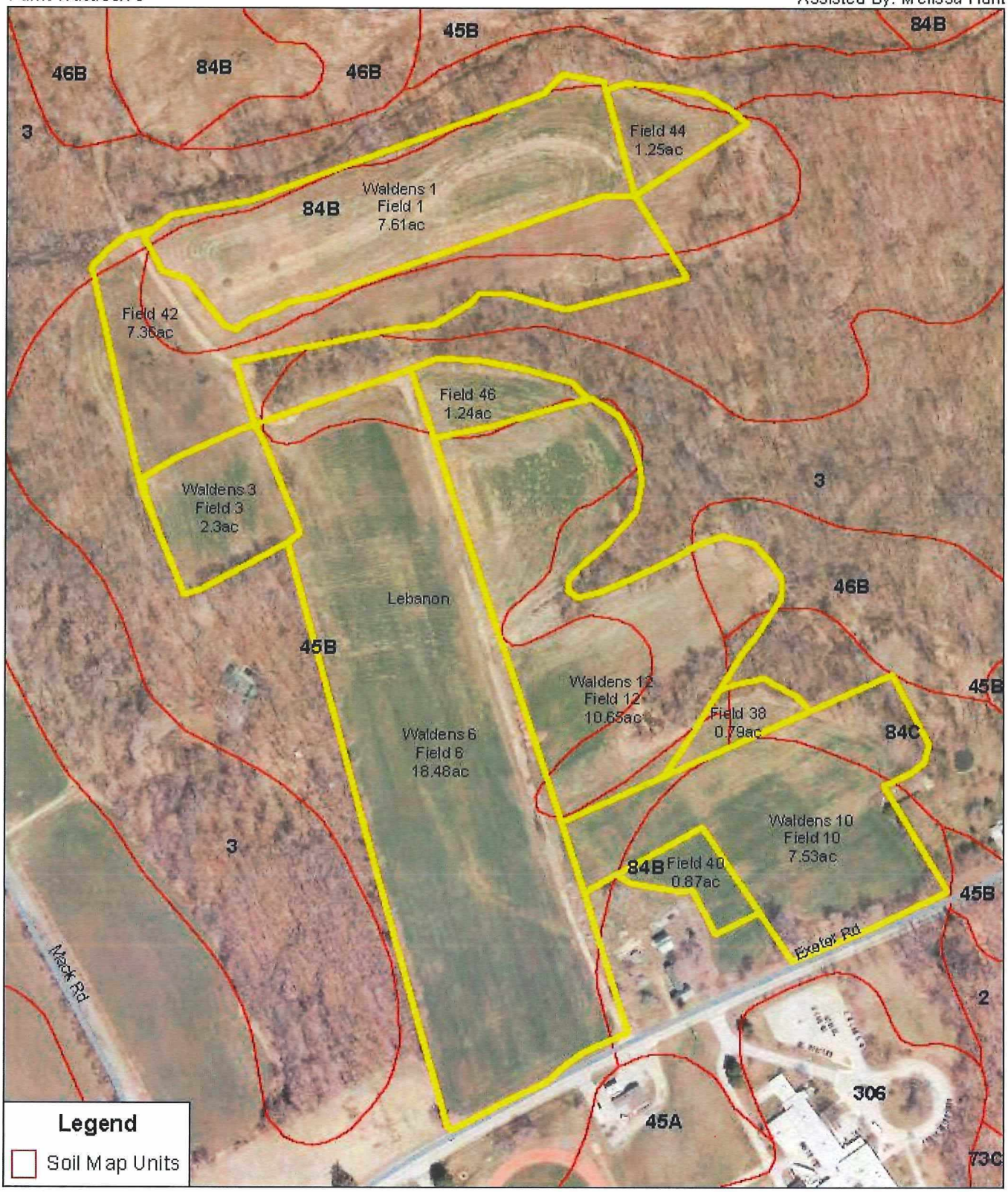
N

Soil Map: Waldens

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:93/78

Agency: USDA NRCS
Assisted By: Melissa Hunt



Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,250

200 0 200 400 600 800 Feet

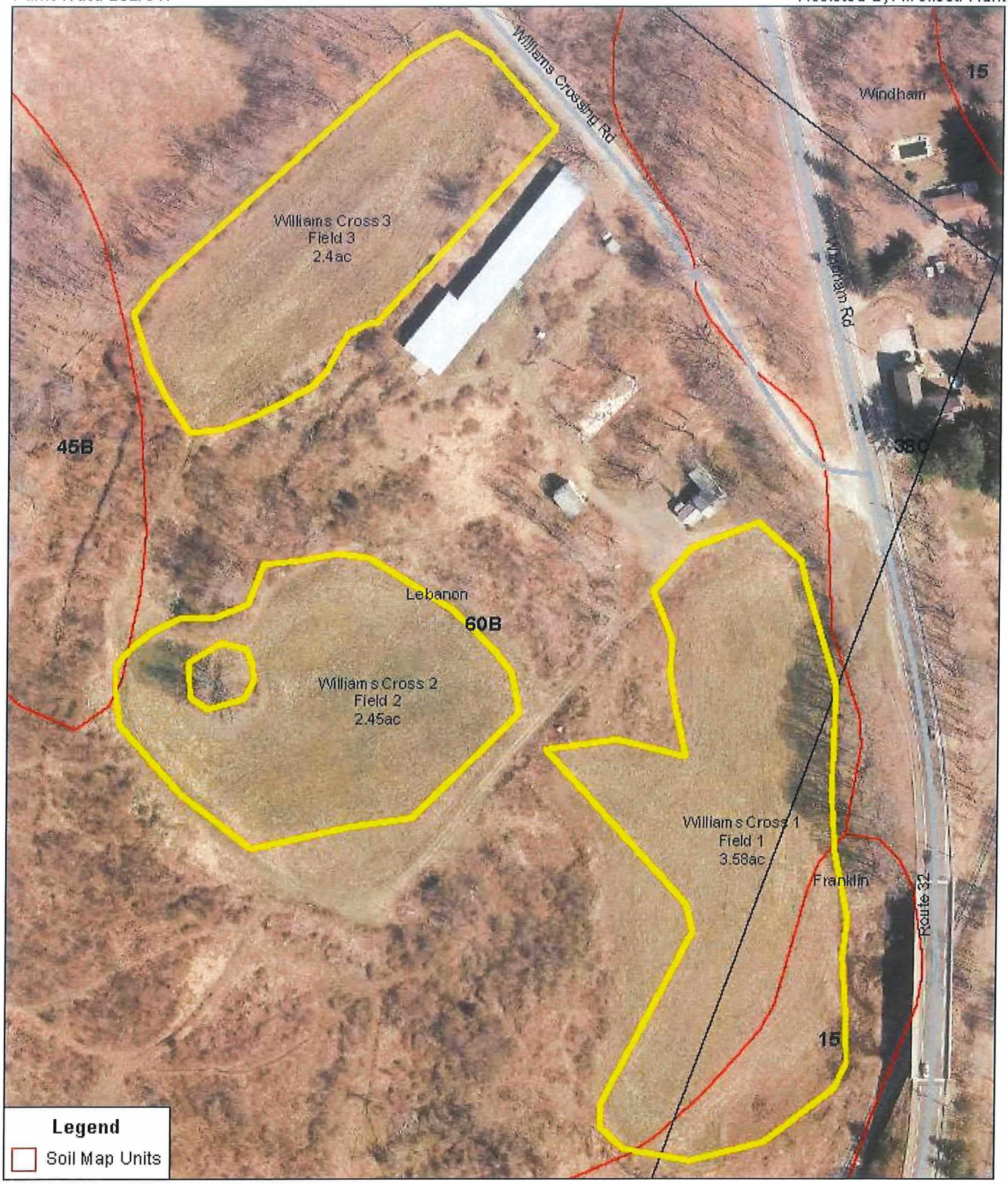
N

Soil Map:
Williams Cross

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 282/647

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,000

90 0 90 180 270 360 Feet

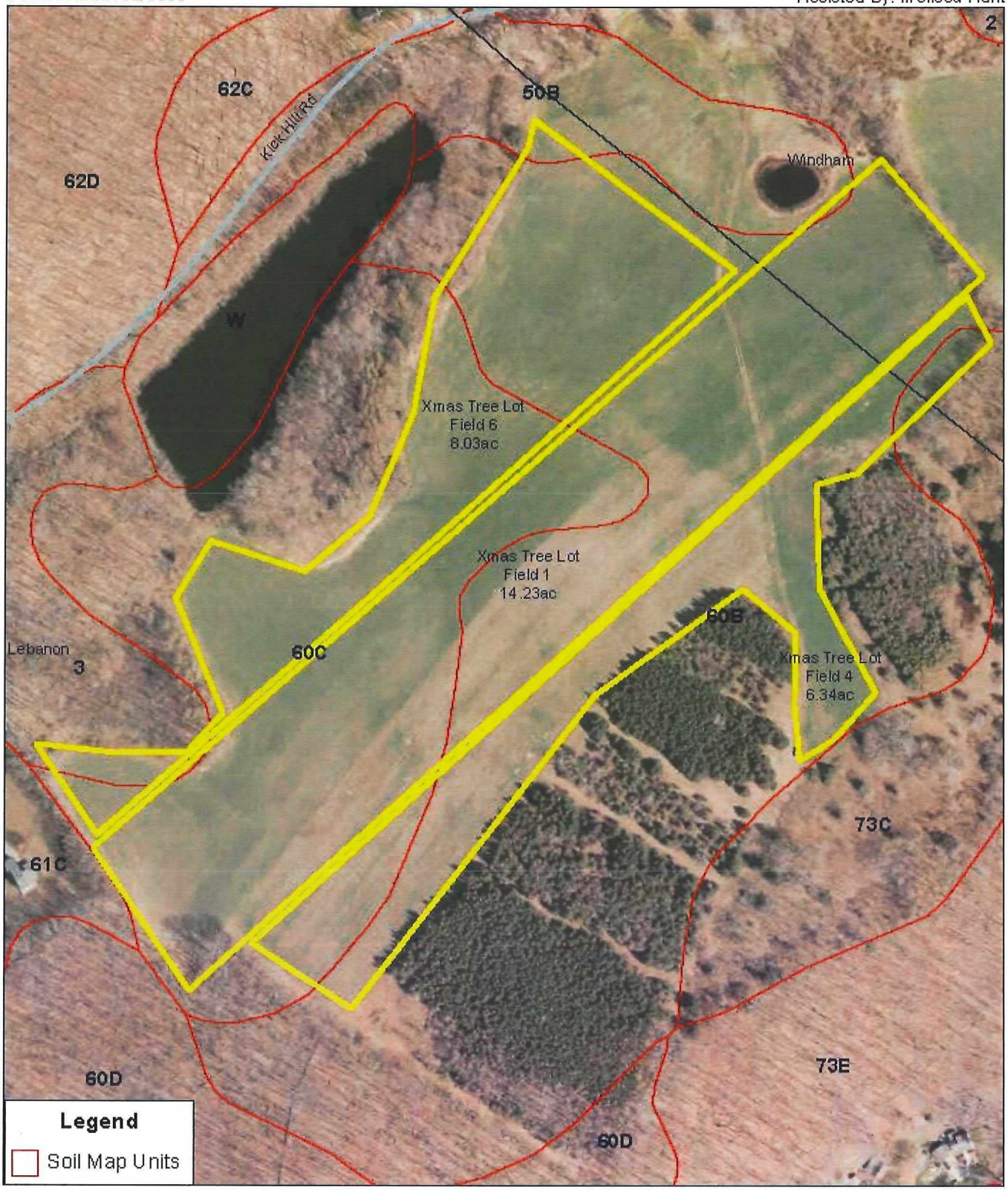
N

Soil Map:
Xmas Tree Lot

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2182/8558

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

N

Soil Map:
Young Stock

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/280 & 1774/8157

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

N

Appendix C

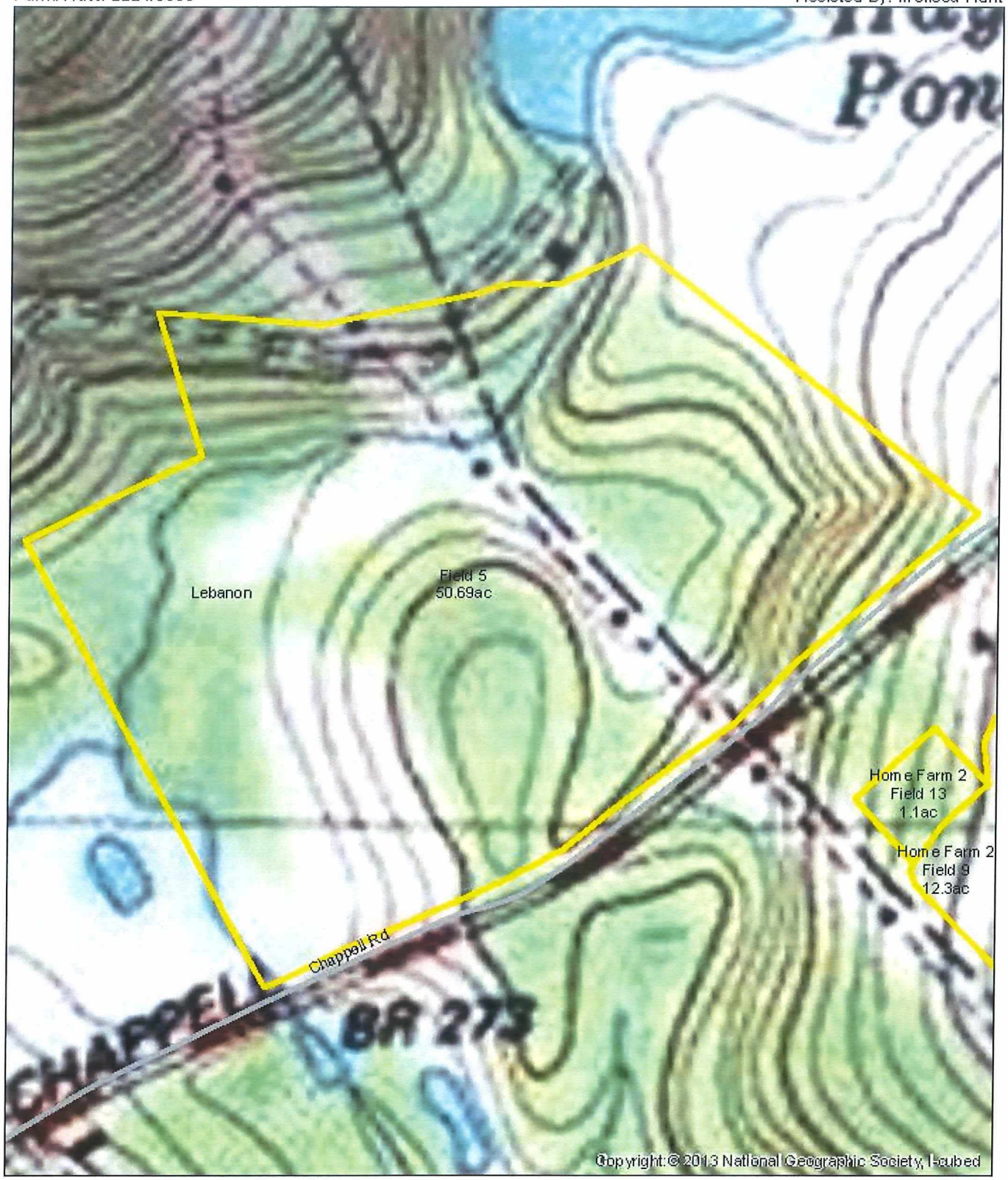
Topographic Maps

Topographic Map:
50 Acre Chappell Rd

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 2224/8609

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance
from the USDA
Natural Resources
Conservation Service

1:4,000

190 0 190 380 570 760
Feet

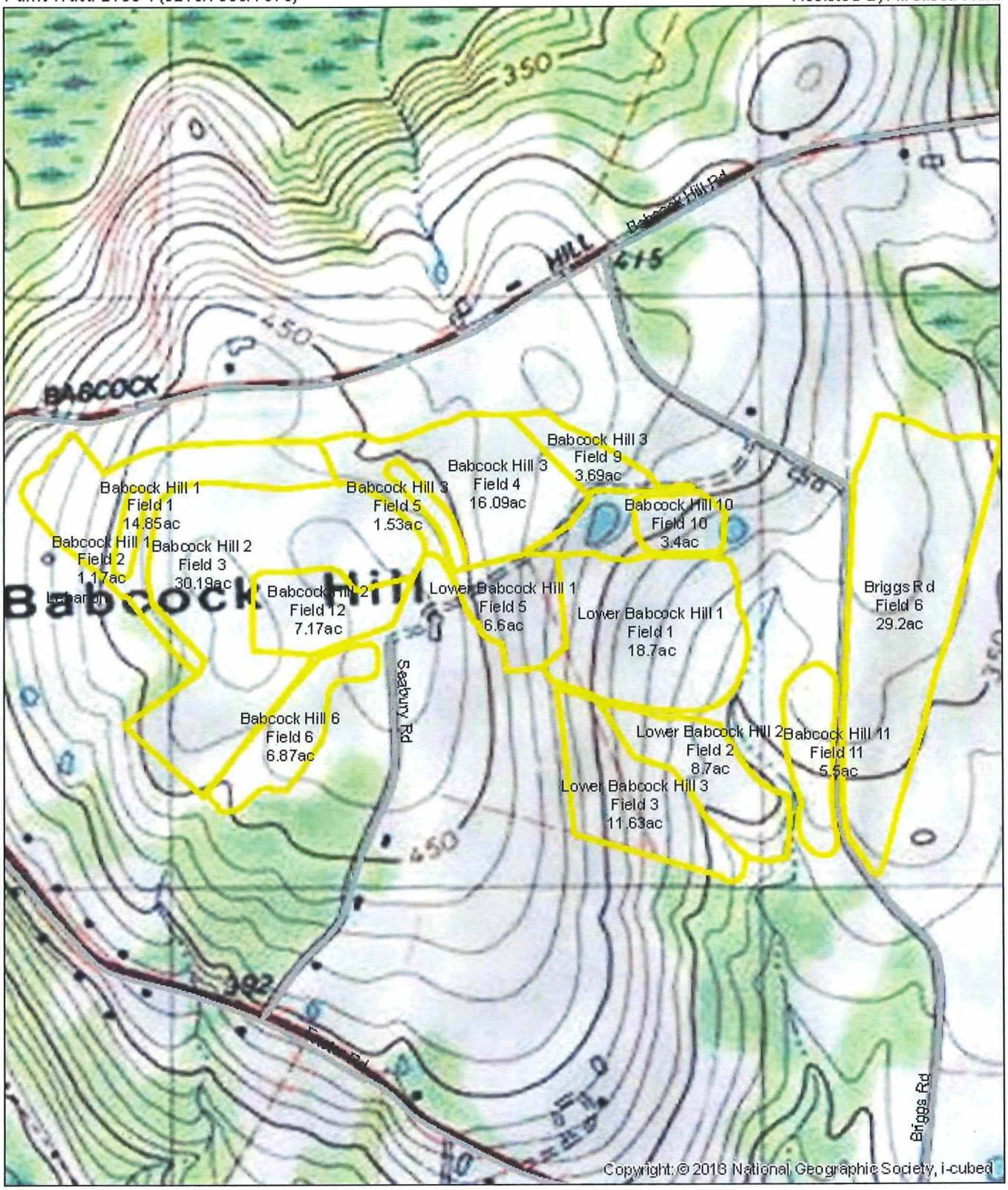
N

Topographic Map:
Babcock Hill

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 2183 T(8219/7983/7679)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:9,500

460 0 460 920 1,380 1,840 Feet

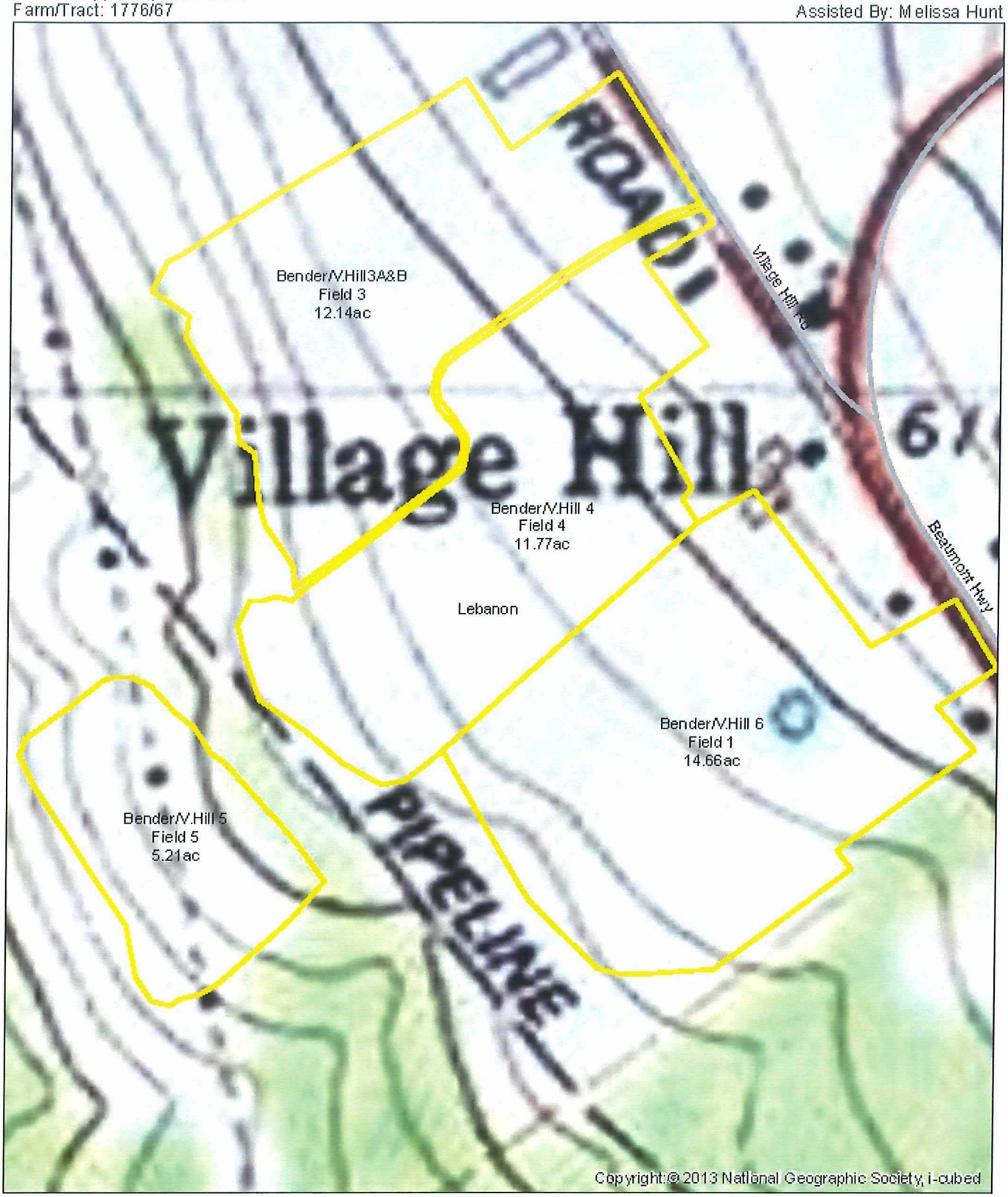
N

Topographic Map:
Bender V.Hill

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/67

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

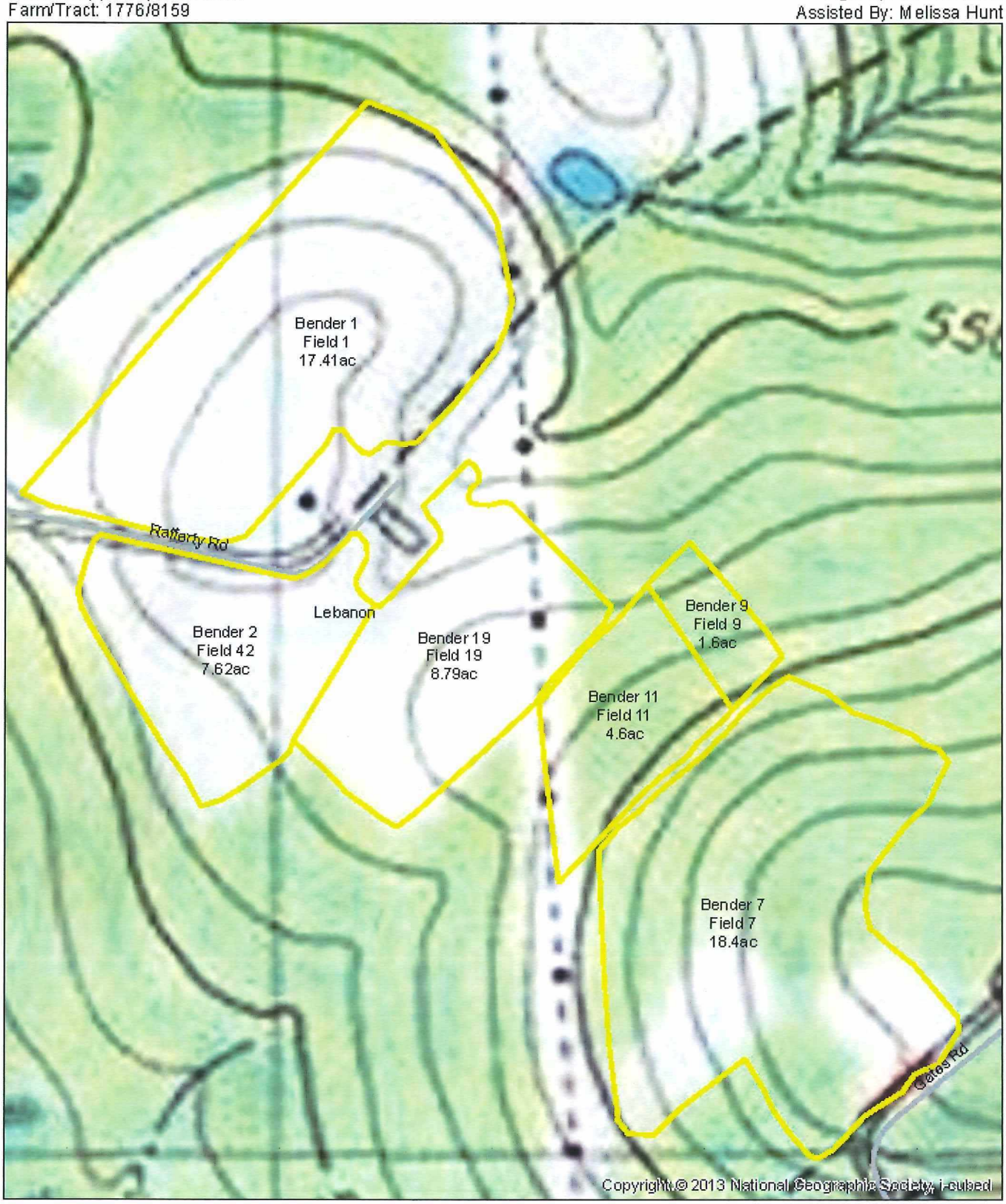
N

Topographic Map: Bender

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/8159

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840 Feet

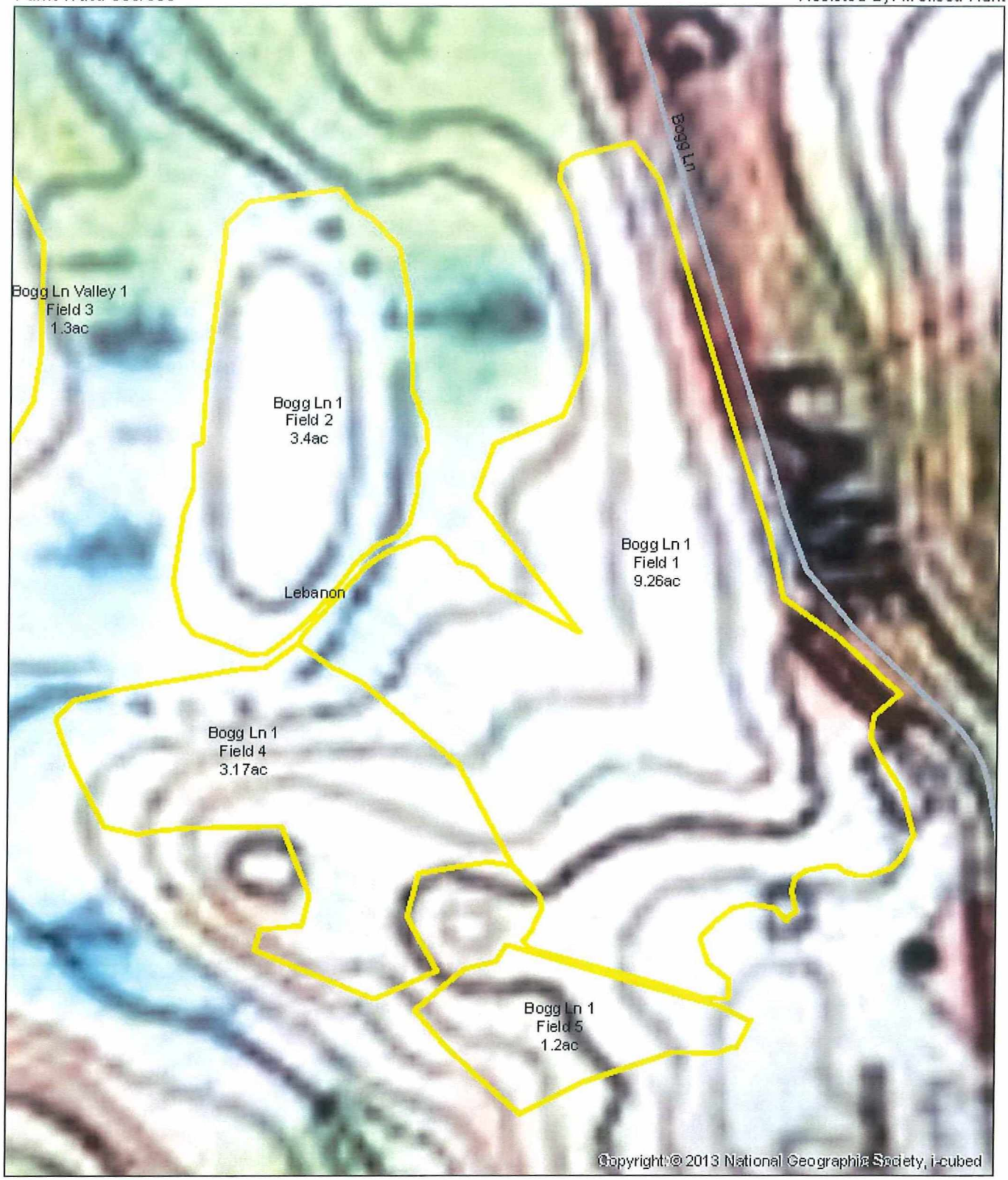
N

Topographic Map:
Bogg Ln 1

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,250

100 0 100 200 300 400 Feet

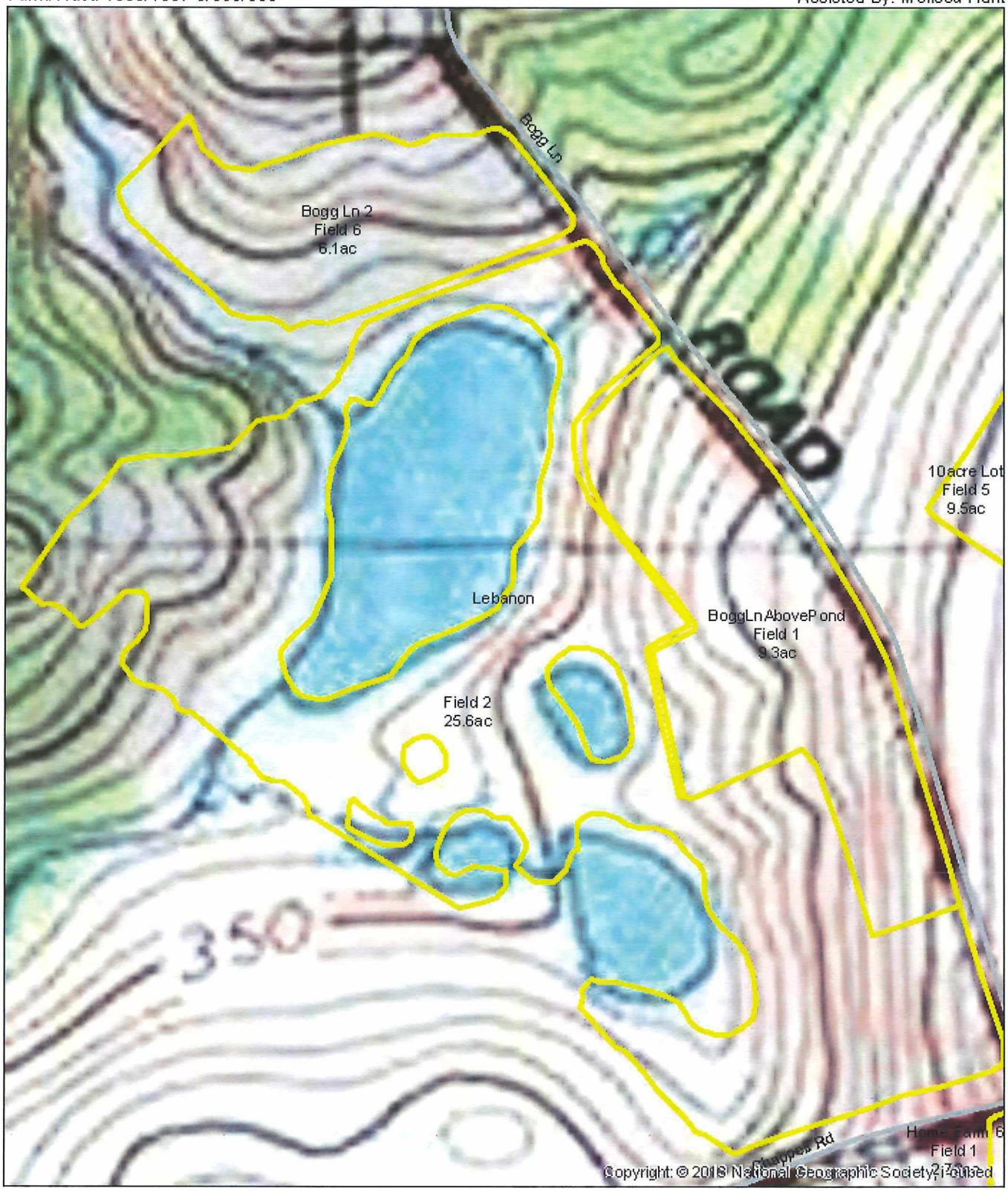
N

Topographic Map:
Bogg Ln 2

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1855/1957 & 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,600

170 0 170 340 510 680 Feet

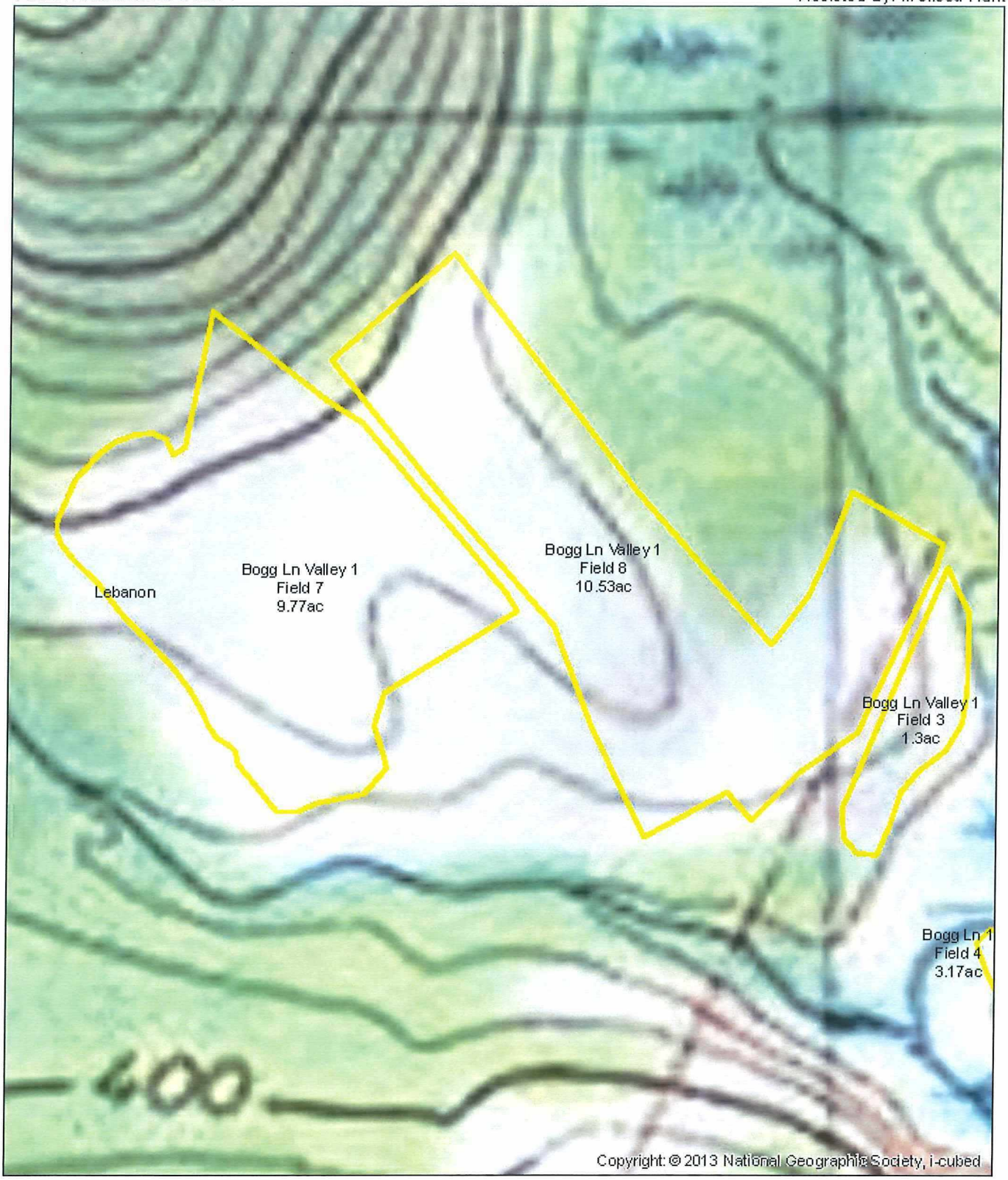
N

Topographic Map:
Bogg Ln Valley

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 869/958 & 89/74

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

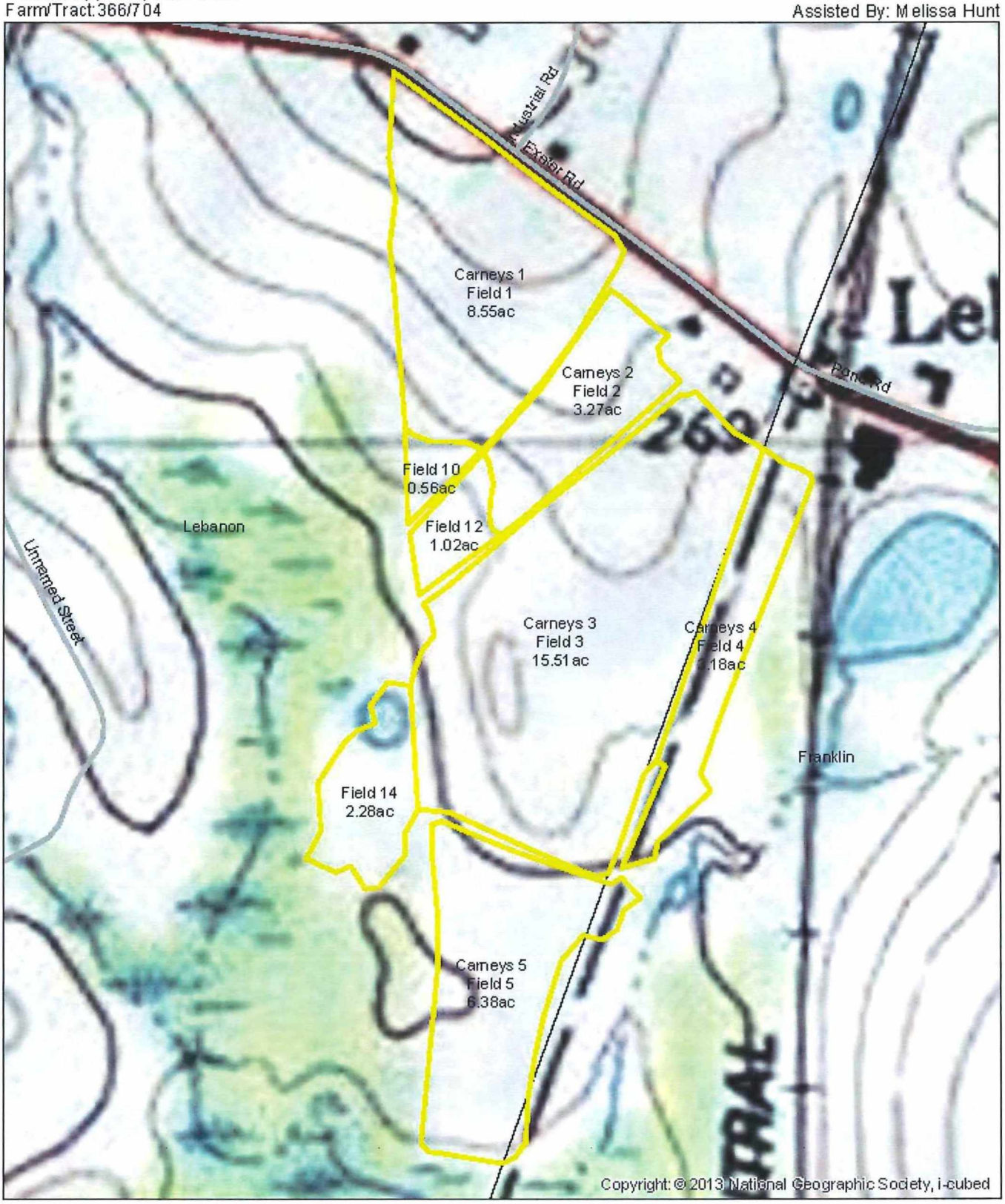
N

Topographic Map: Carneys

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 366/704

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840
Feet

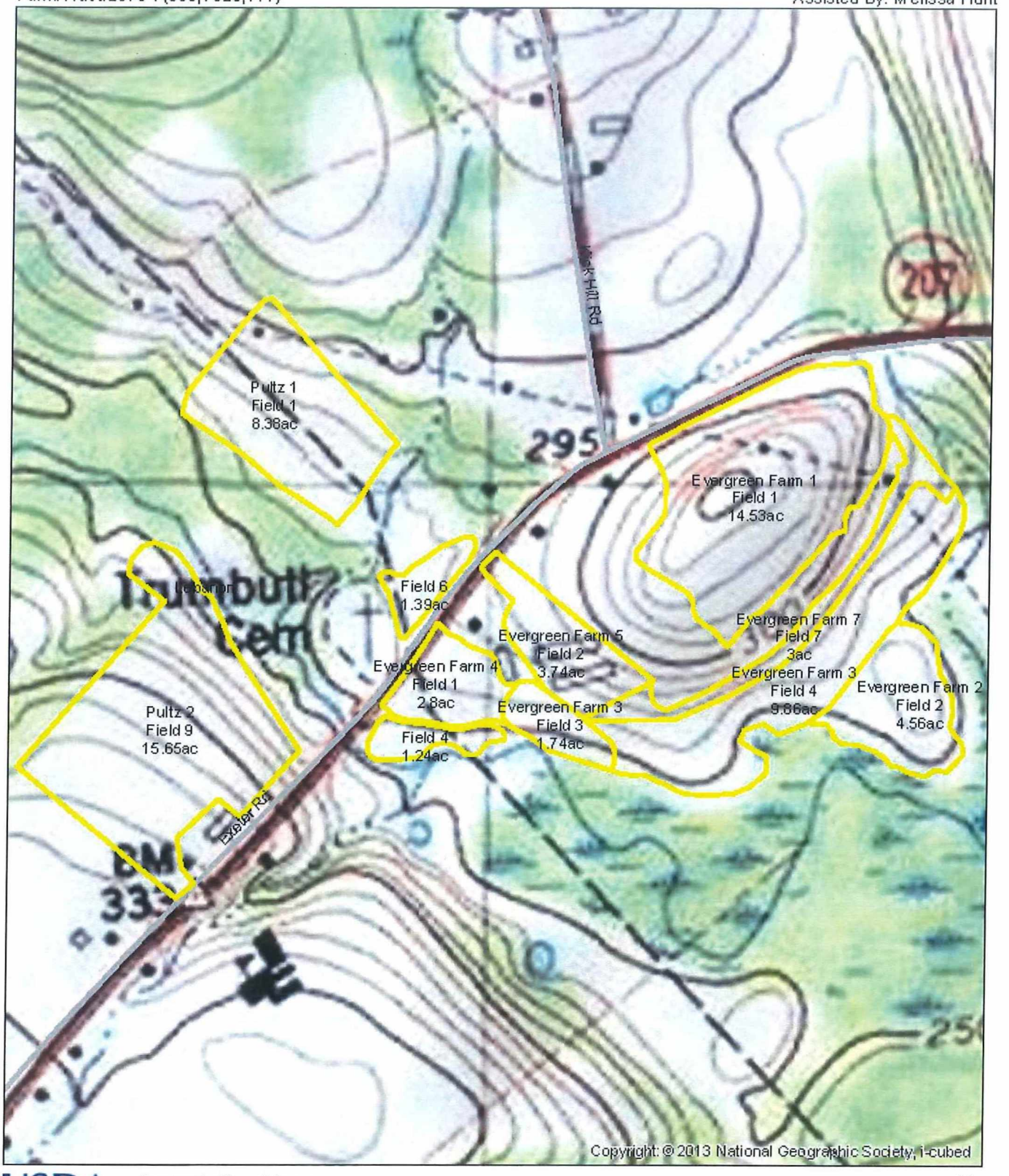
N

Topographic Map: Evergreen/Pultz

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079 T(688,7523,117)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:6,500

310 0 310 620 930 1,240 Feet

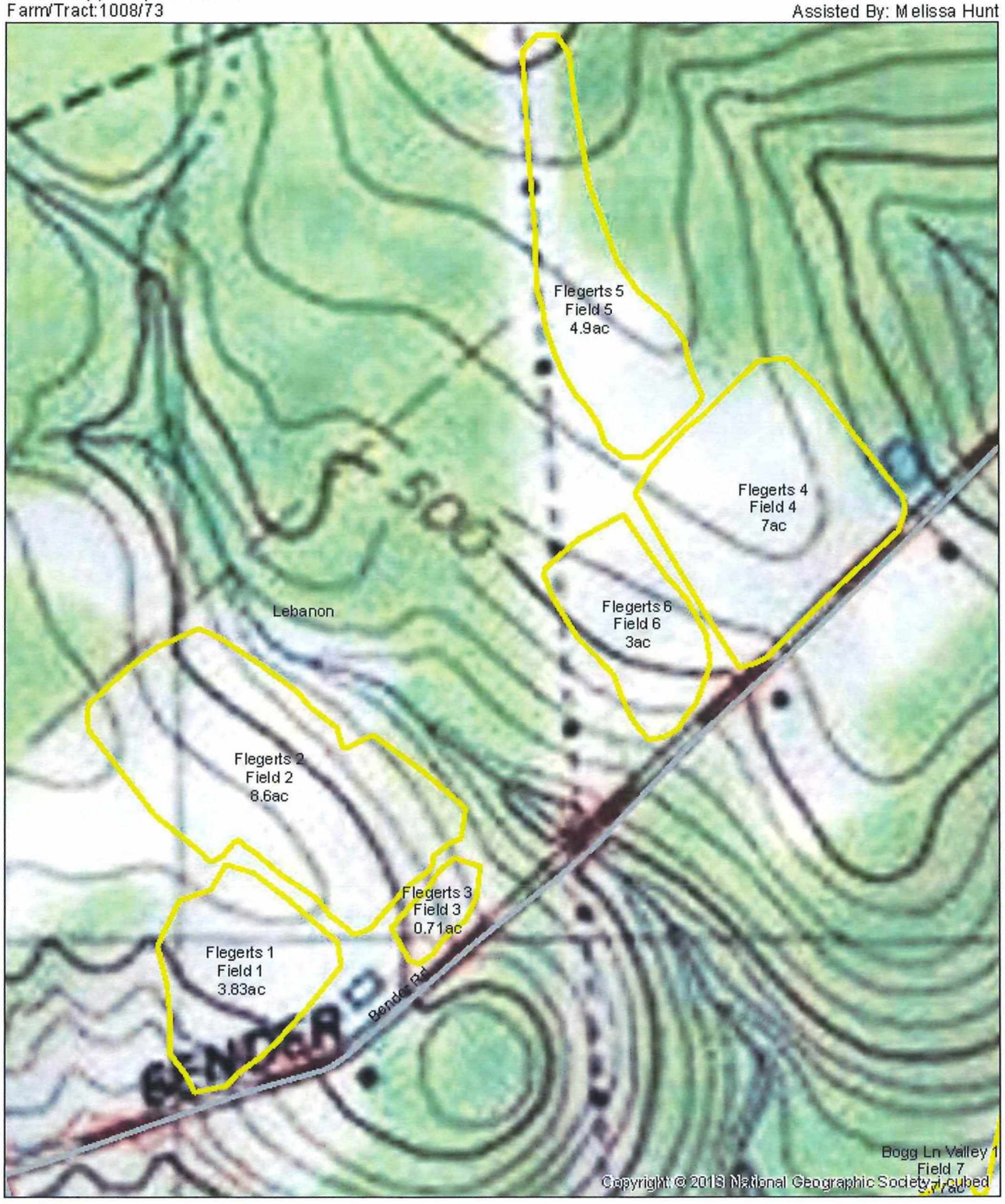
N

Topographic Map: Flegerts

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:1008/73

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,300

200 0 200 400 600 800 Feet

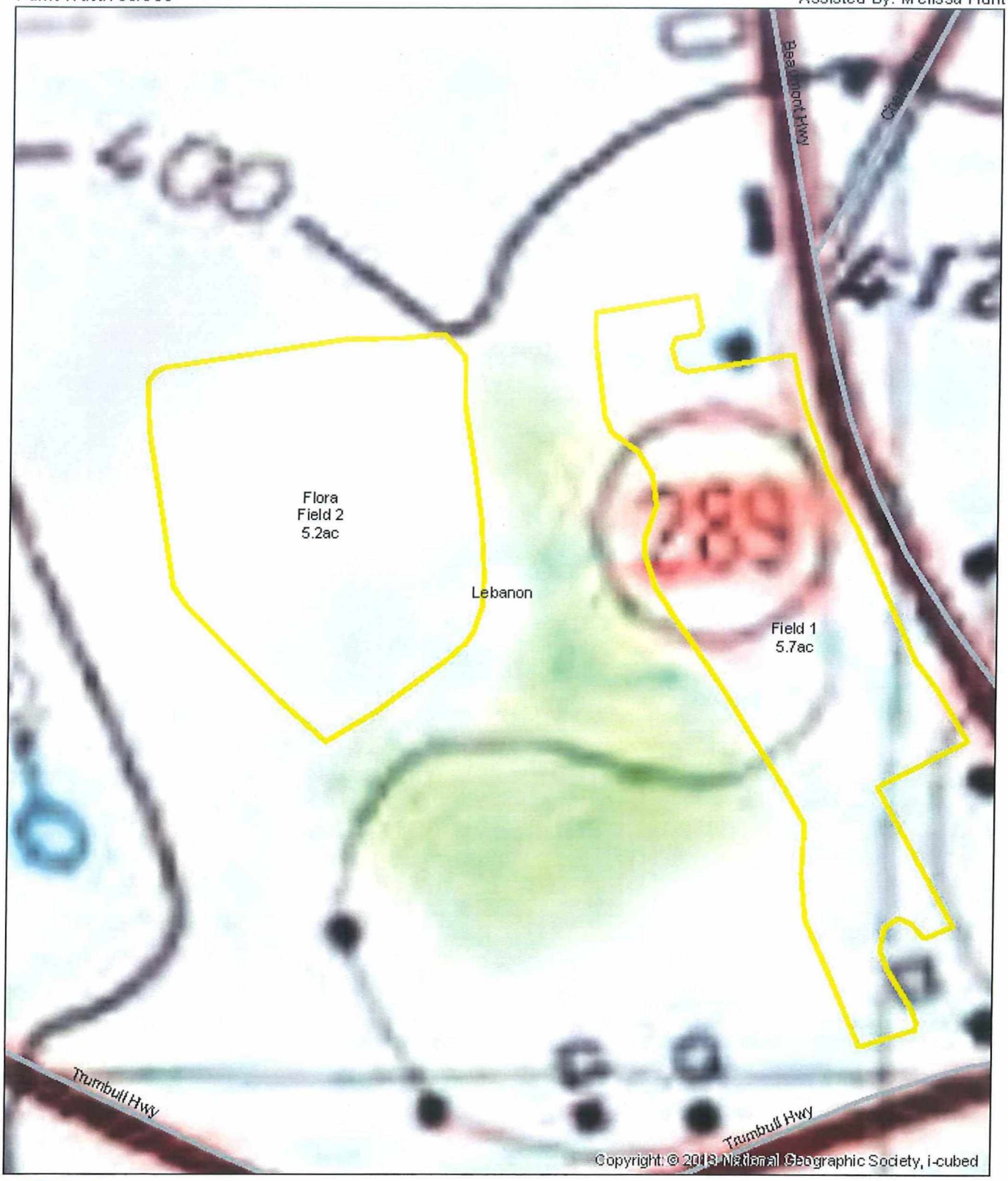
N

Topographic Map:
Flora

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:768/560

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

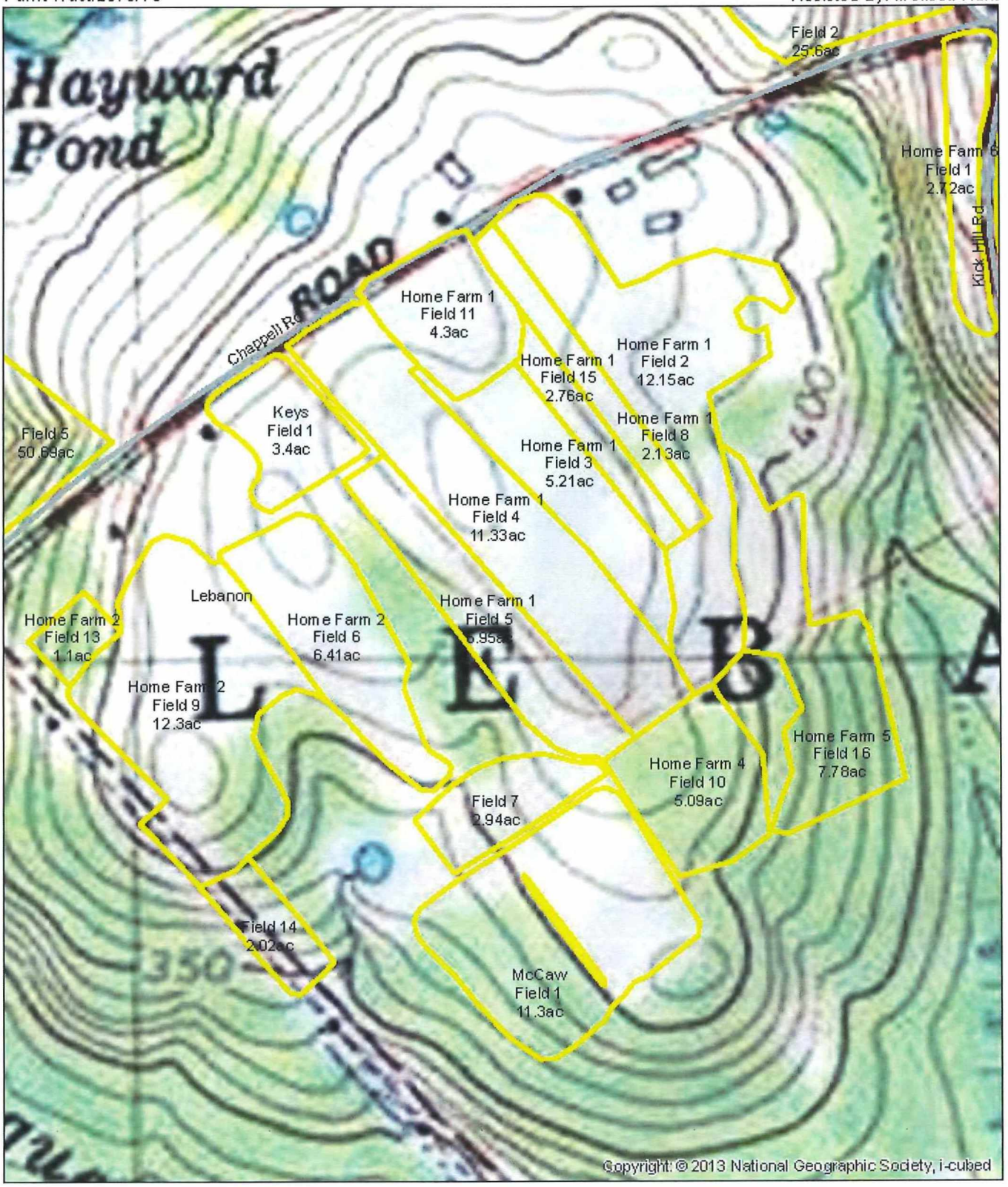
N

Topographic Map:
Home Farm

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/76

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,750

275 0 275 550 825 1,100 Feet

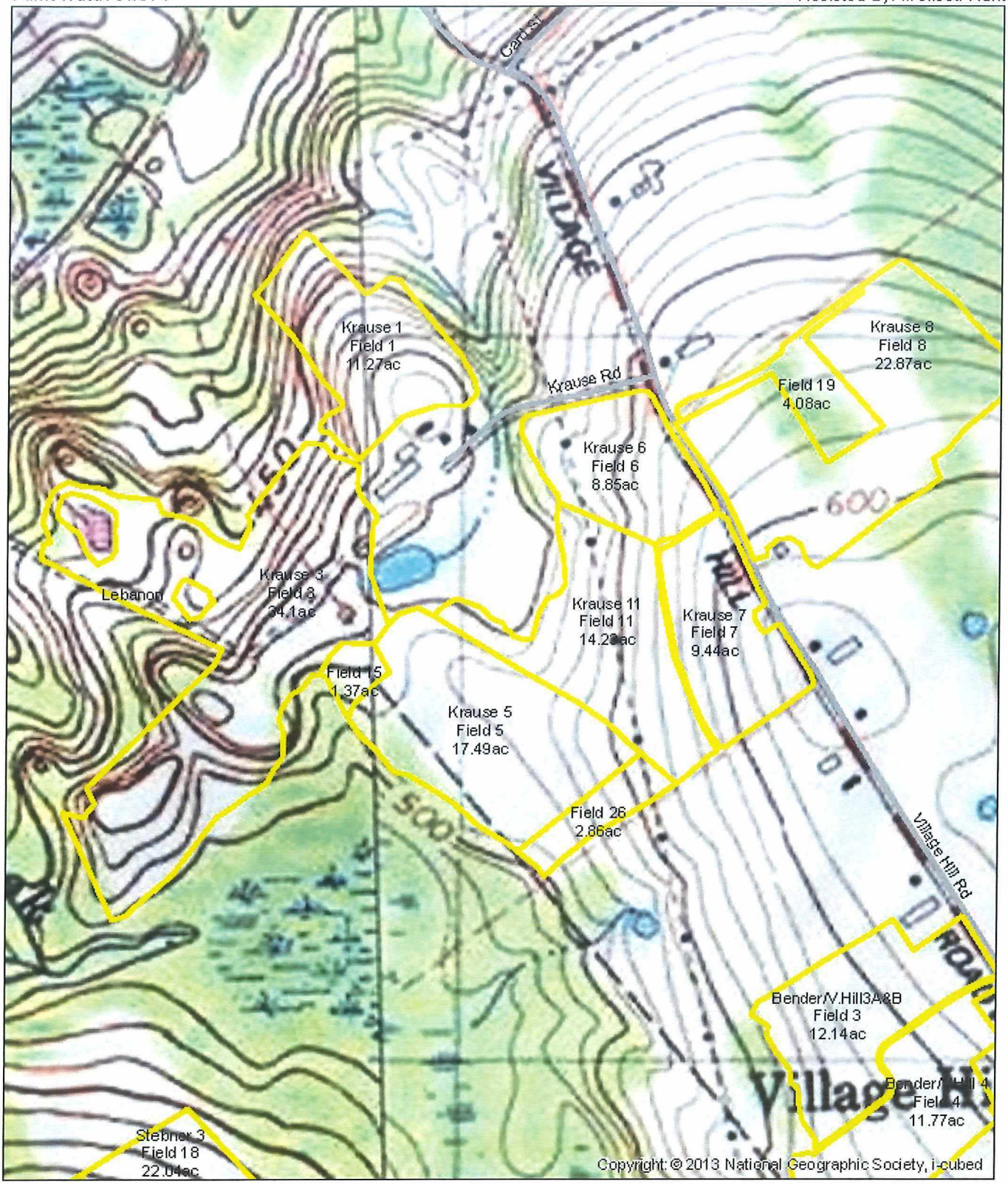
N

Topographic Map:
Krause

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:781/574

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,750

375 0 375 750 1,125 1,500 Feet

N

Topographic Map:
M City Rd

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 906/928

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,000

190 0 190 380 570 760 Feet

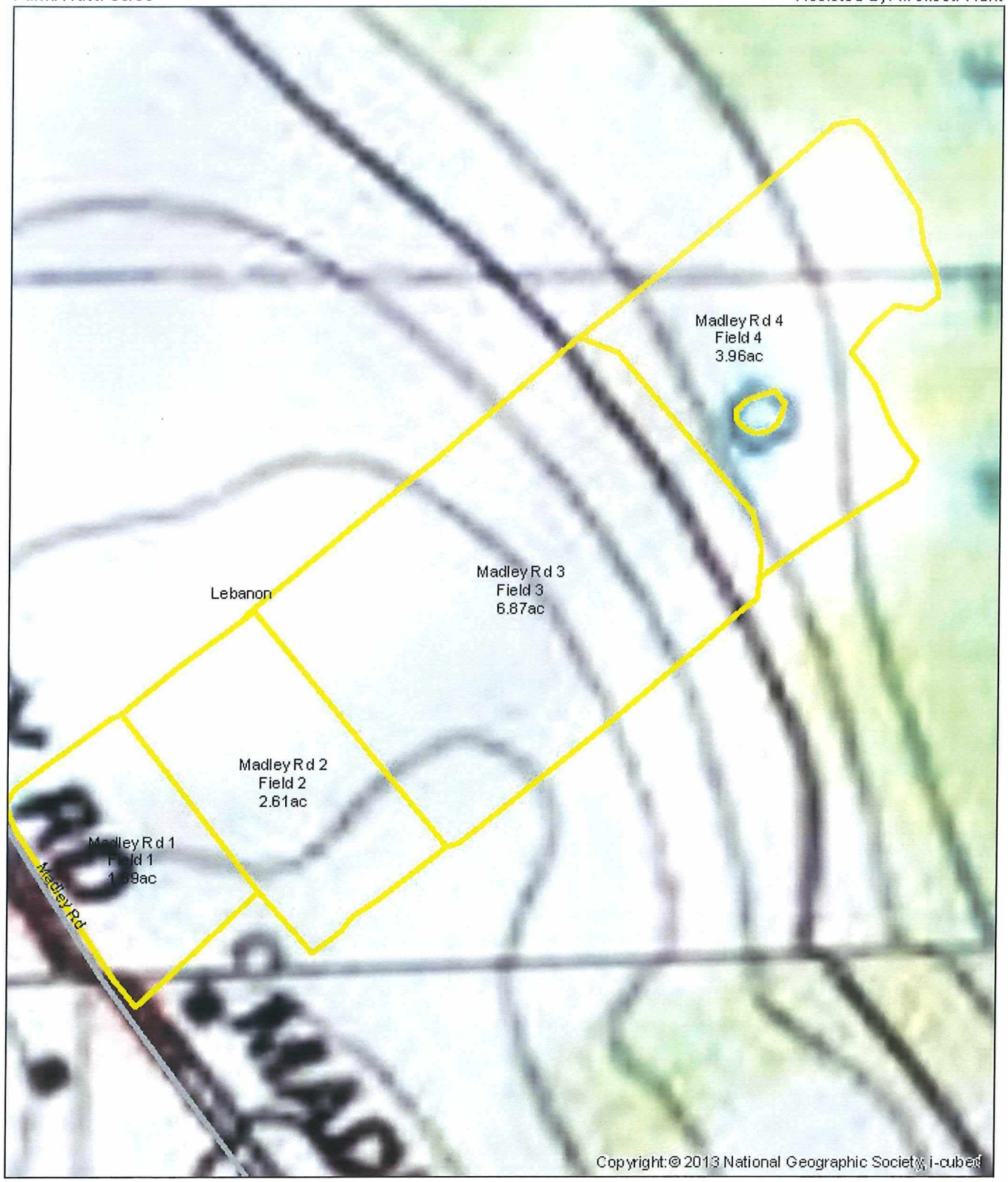
N

Topographic Map:
Madley Rd

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 90/86

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

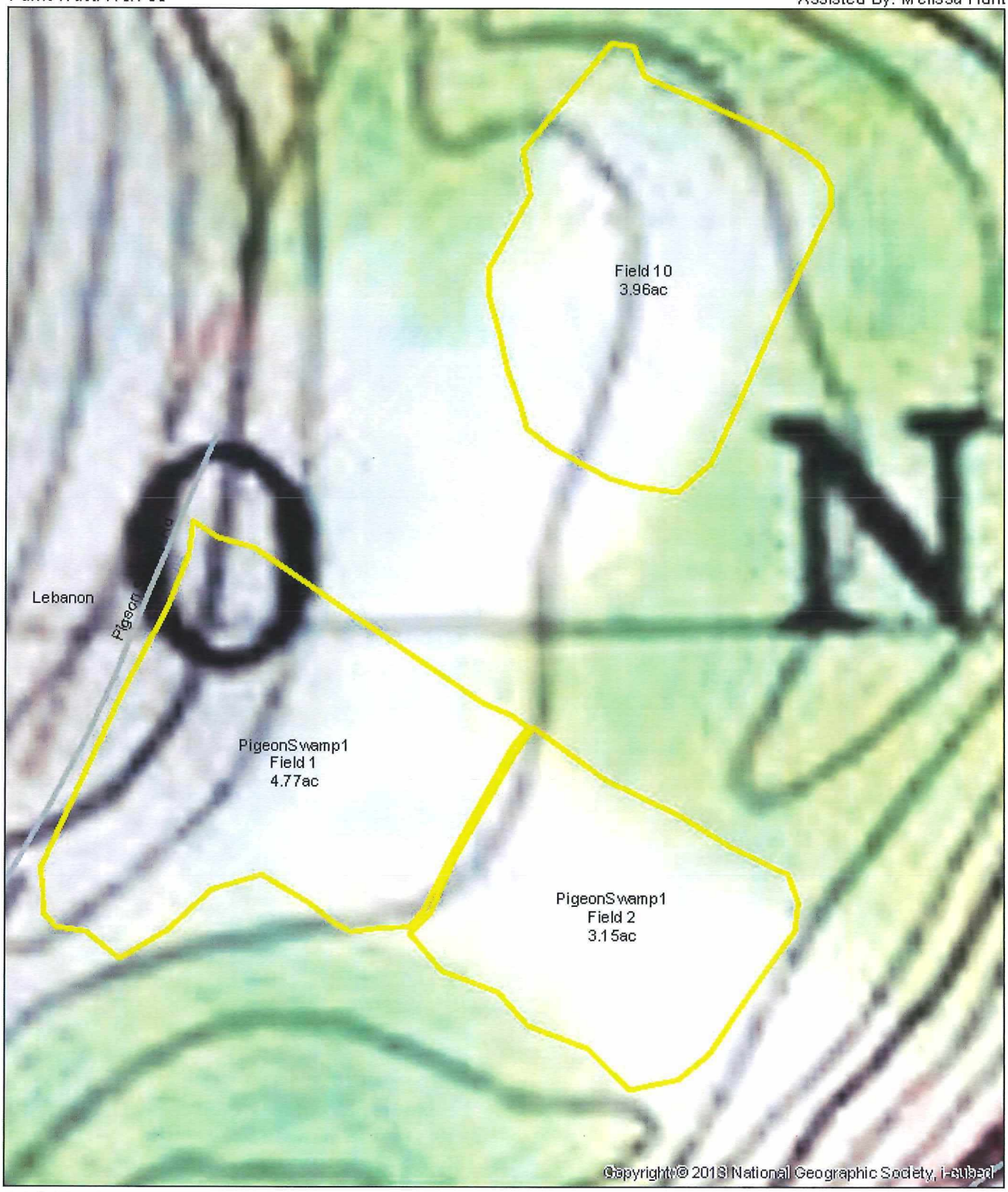
N

Topographic Map:
Pigeon Swamp

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 413/7759

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,250

100 0 100 200 300 400 Feet

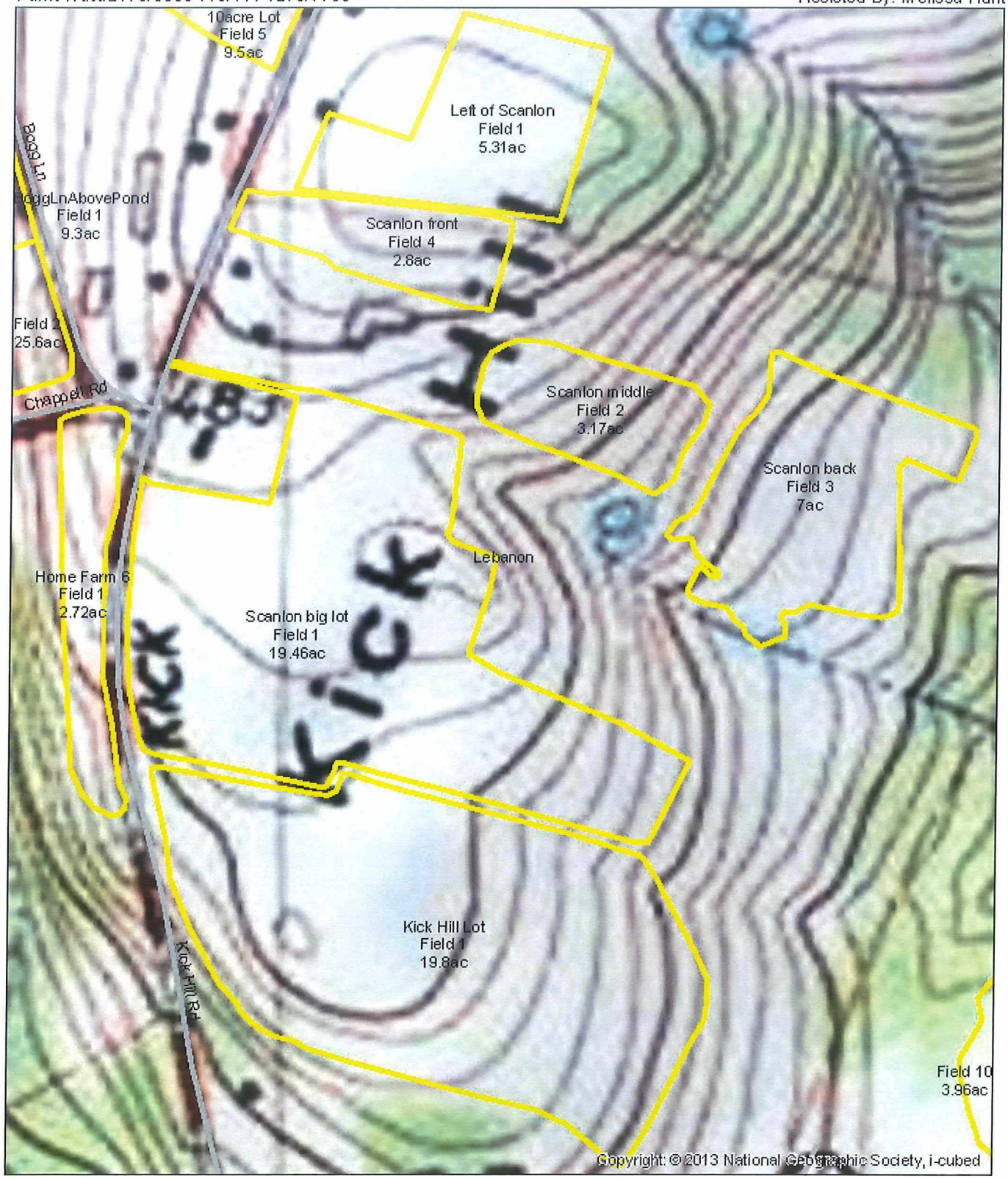
N

Topographic Map: Scanlon

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2179/8555 119/111 1273/7766

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,250

200 0 200 400 600 800 Feet

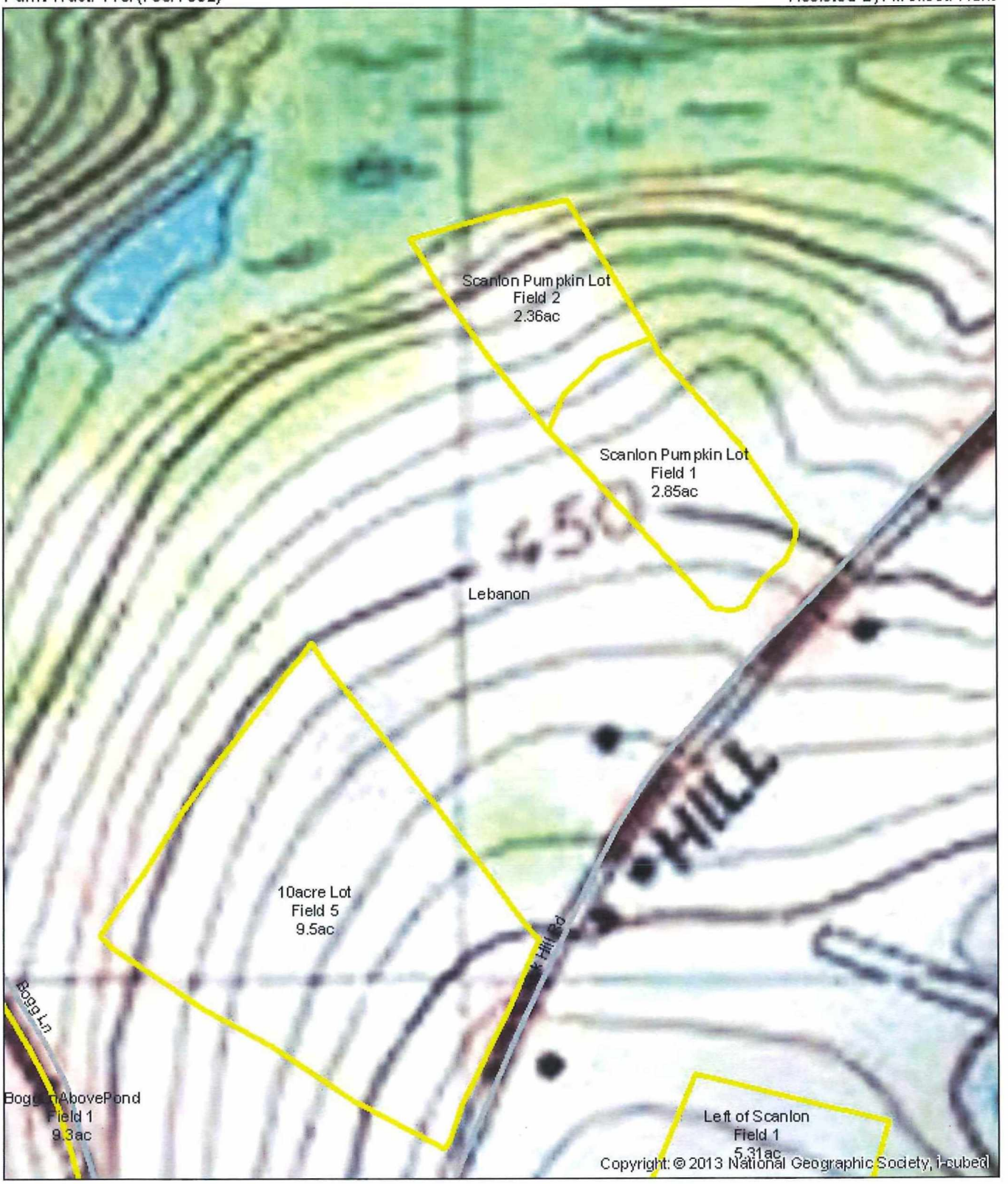
N

Topographic Map:
Scanton Pumpkin

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 119/(756/7532)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

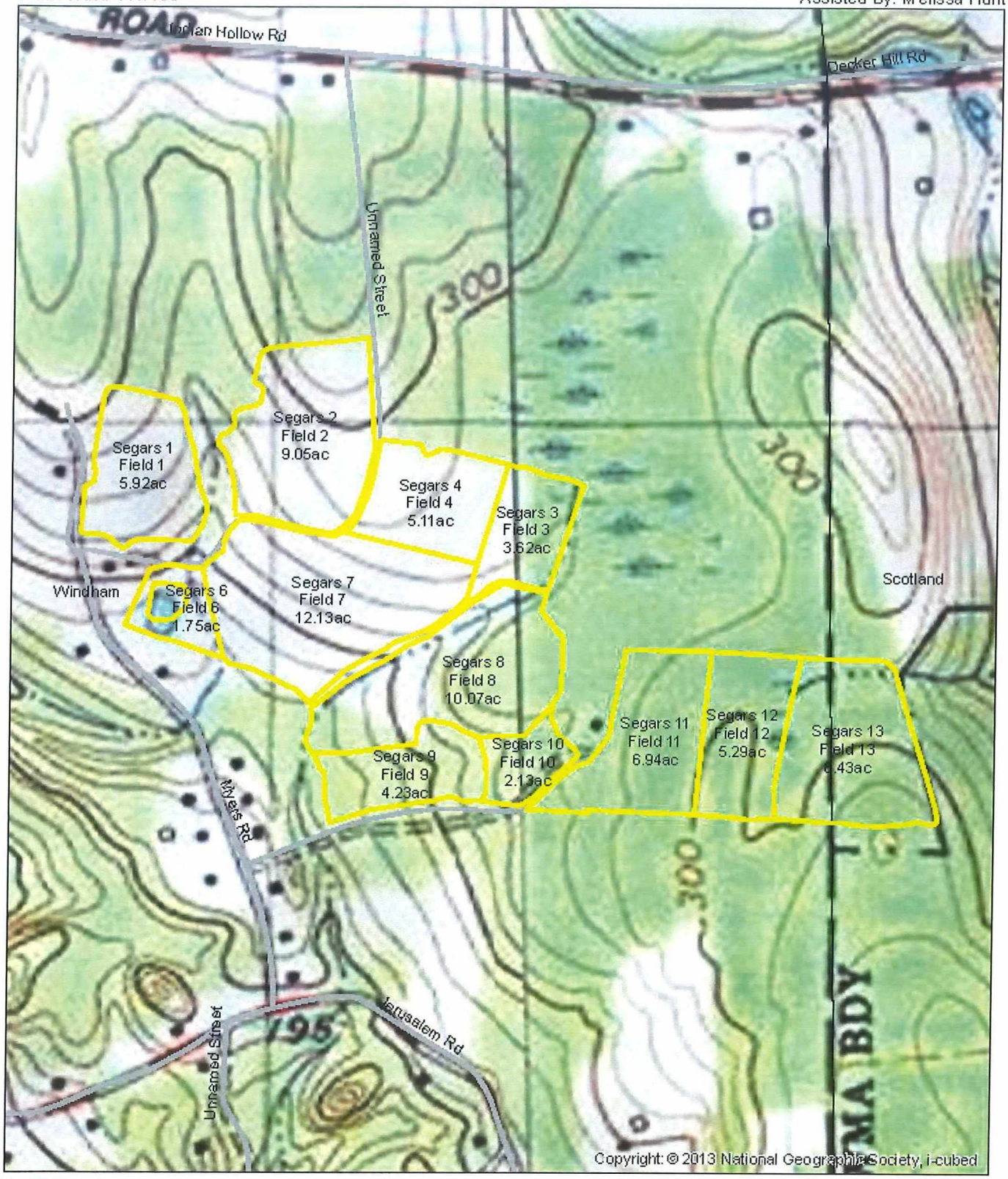
N

Topographic Map: Segars

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 441/135

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,000

340 0 340 680 1,020 1,360 Feet

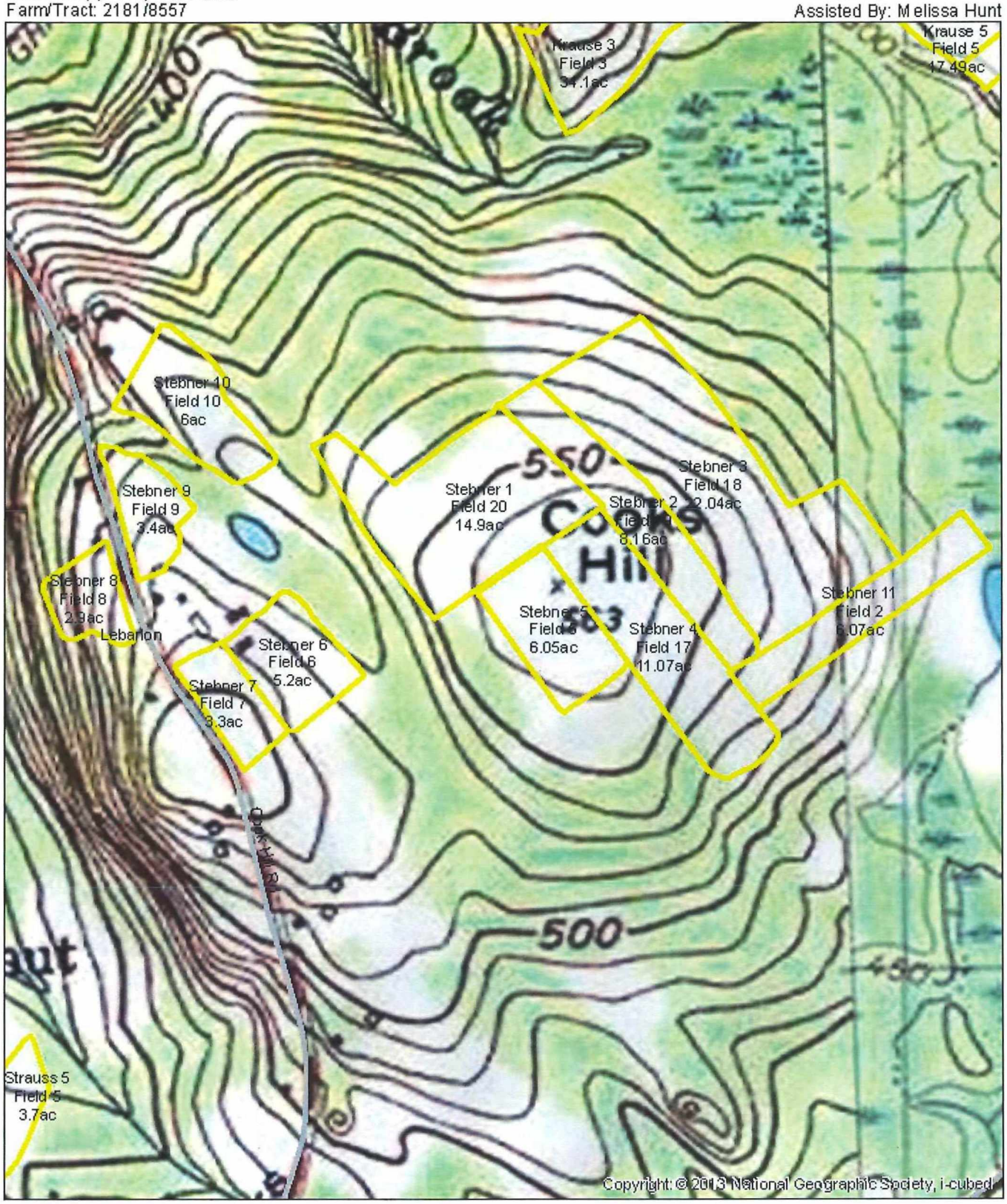
N

Topographic Map: Stebner

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2181/8557

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:8,000

380 0 380 760 1,140 1,520 Feet

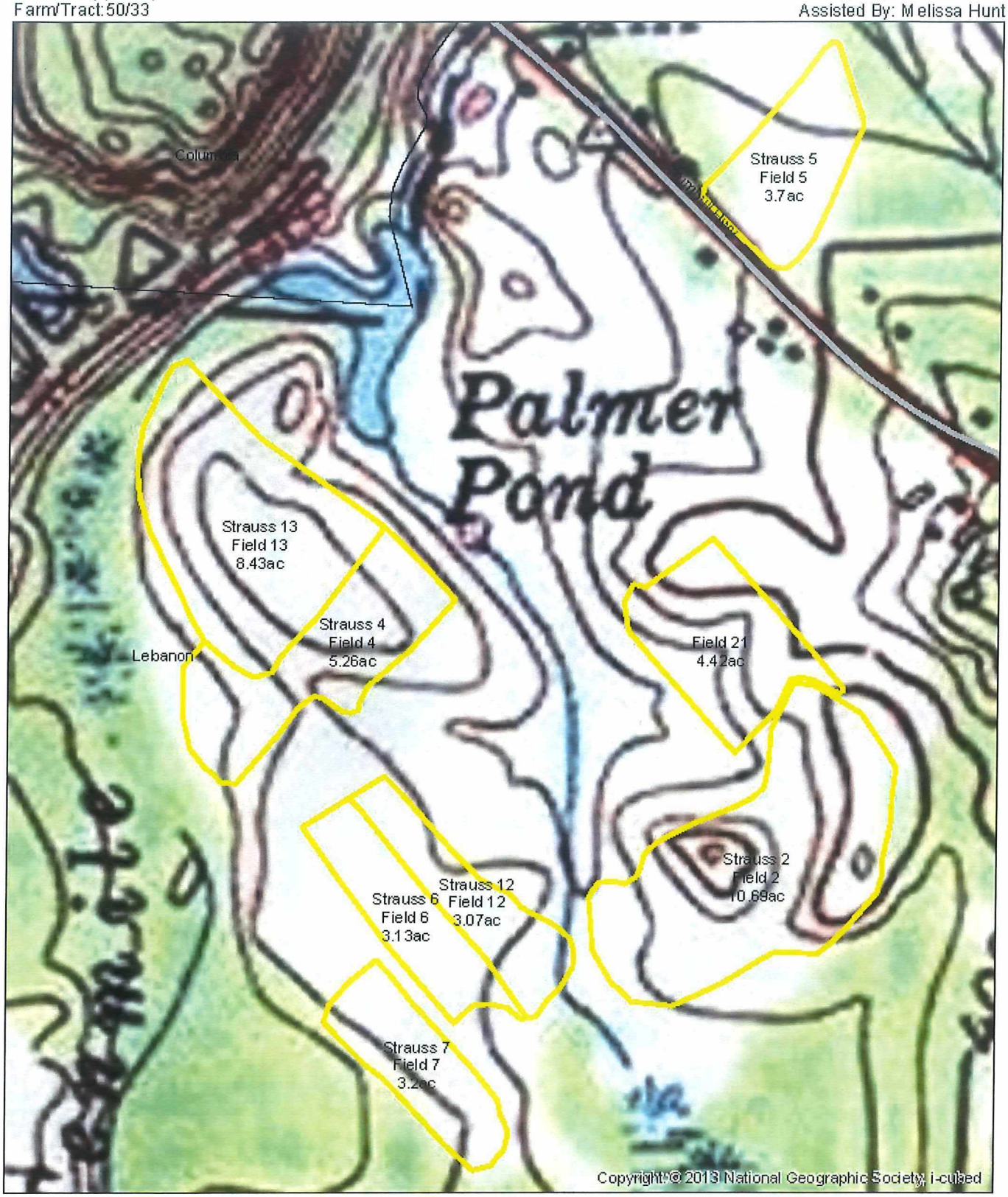
N

Topographic Map:
Strauss

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:50/33

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance
from the USDA
Natural Resources
Conservation Service

1:5,000

240 0 240 480 720 960
Feet

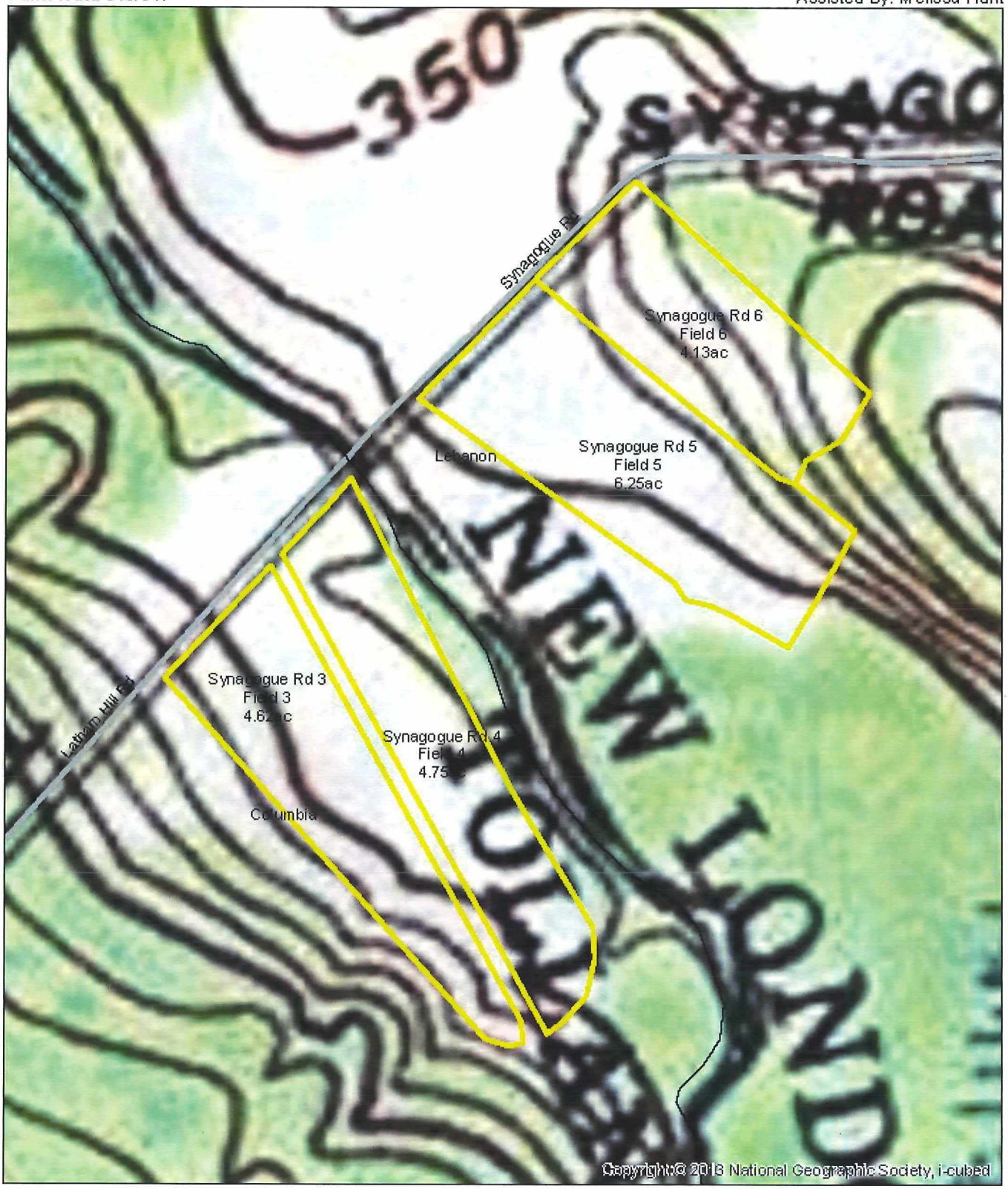
N

Topographic Map:
Synagogue Rd

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 349/847

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

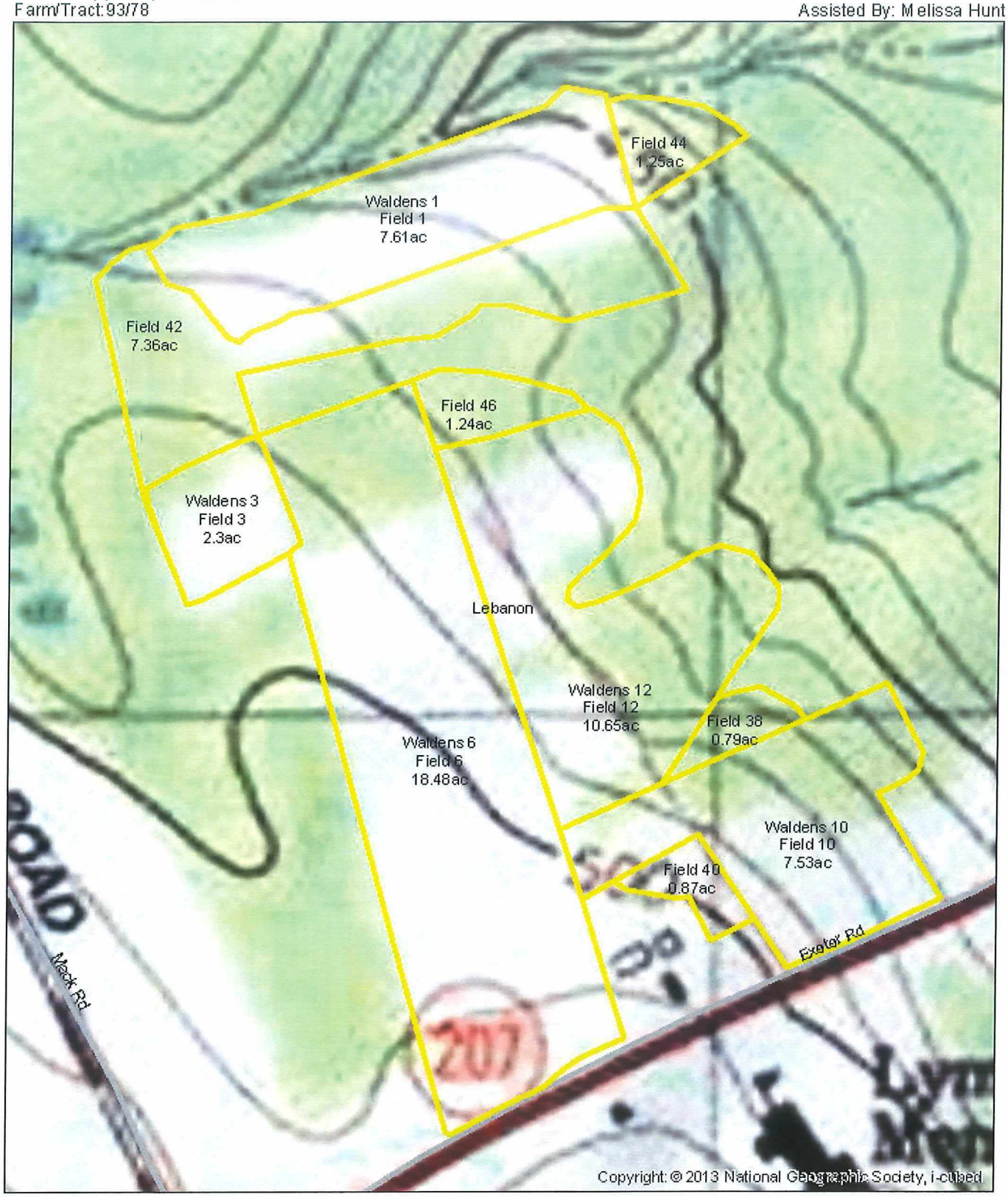
N

Topographic Map: Waldens

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 93/78

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,250

200 0 200 400 600 800 Feet

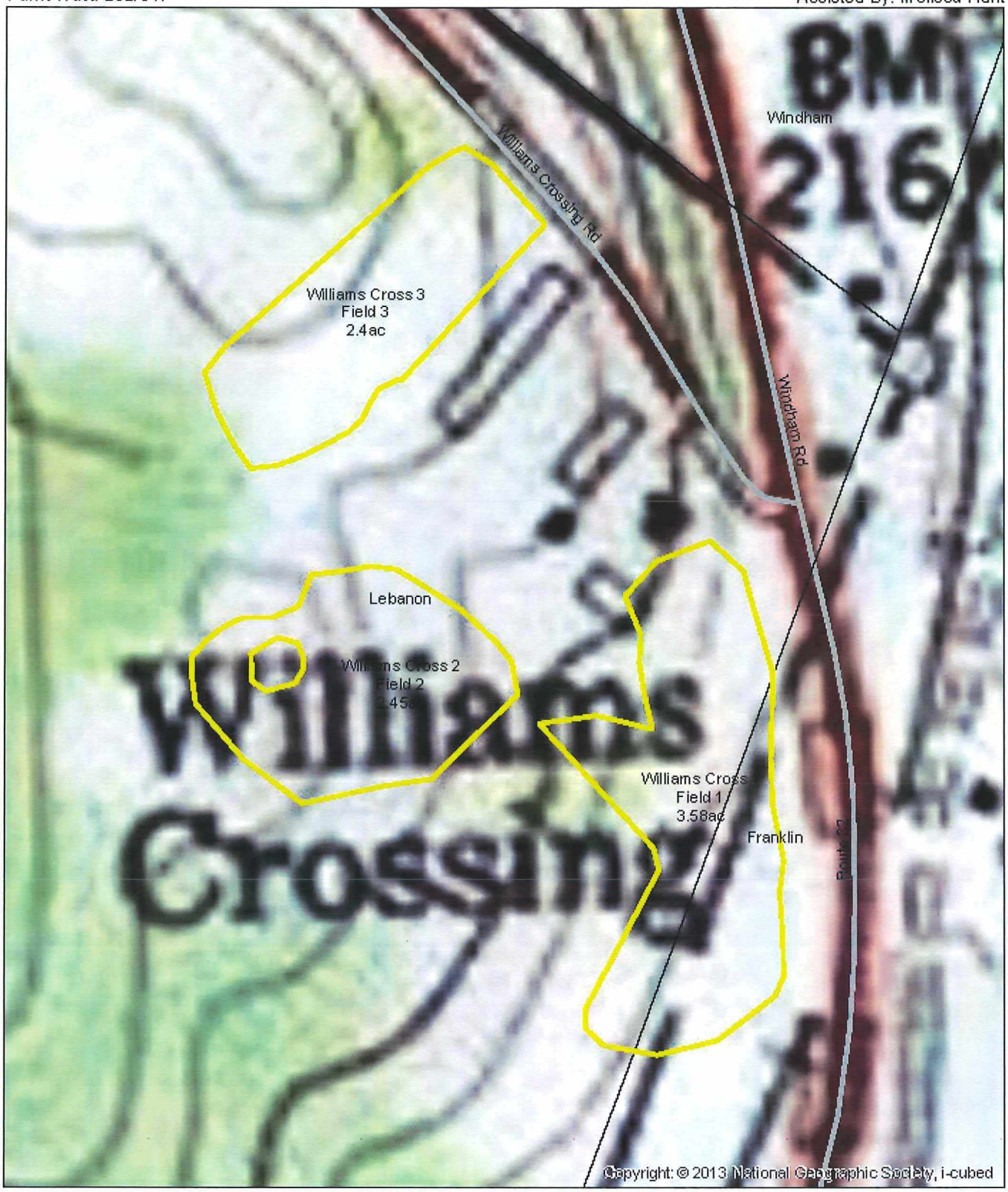
N

Topographic Map:
Williams Cross

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 282/647

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

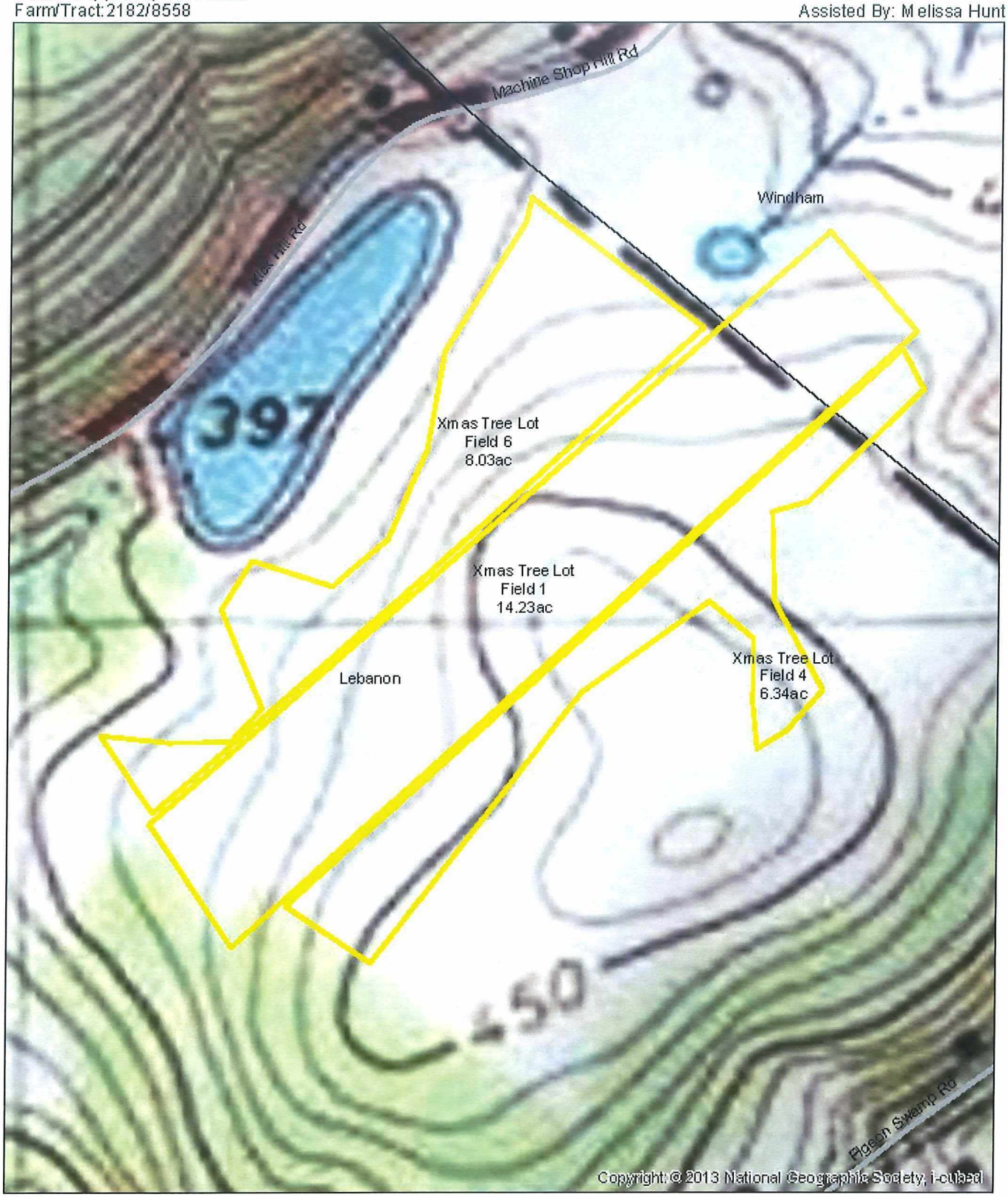
N

Topographic Map:
Xmas Tree Lot

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2182/8558

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,750

180 0 180 360 540 720 Feet

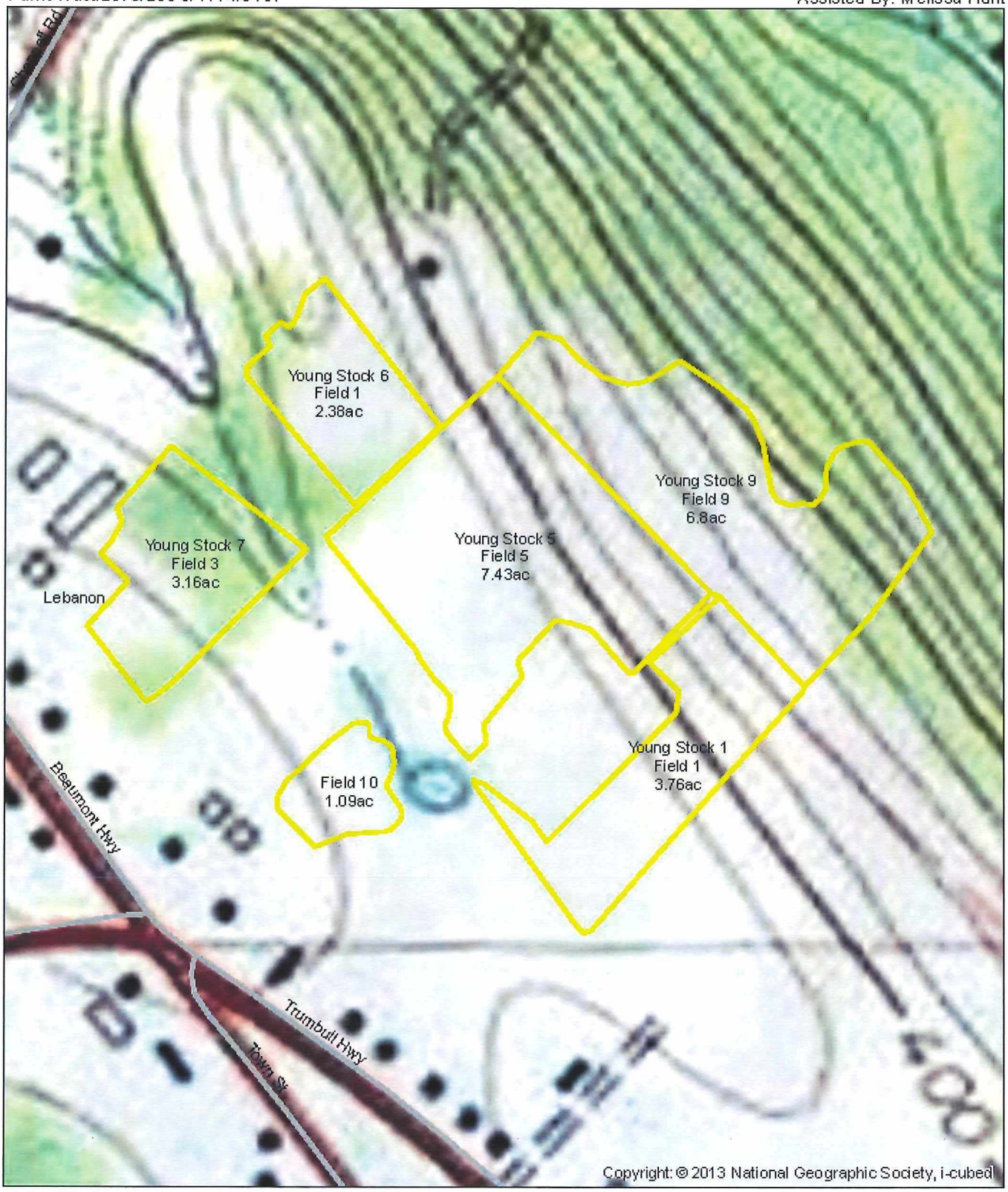
N

Topographic Map:
Young Stock

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/280 & 1774/8157

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,750

180 0 180 360 540 720 Feet

N

Appendix D

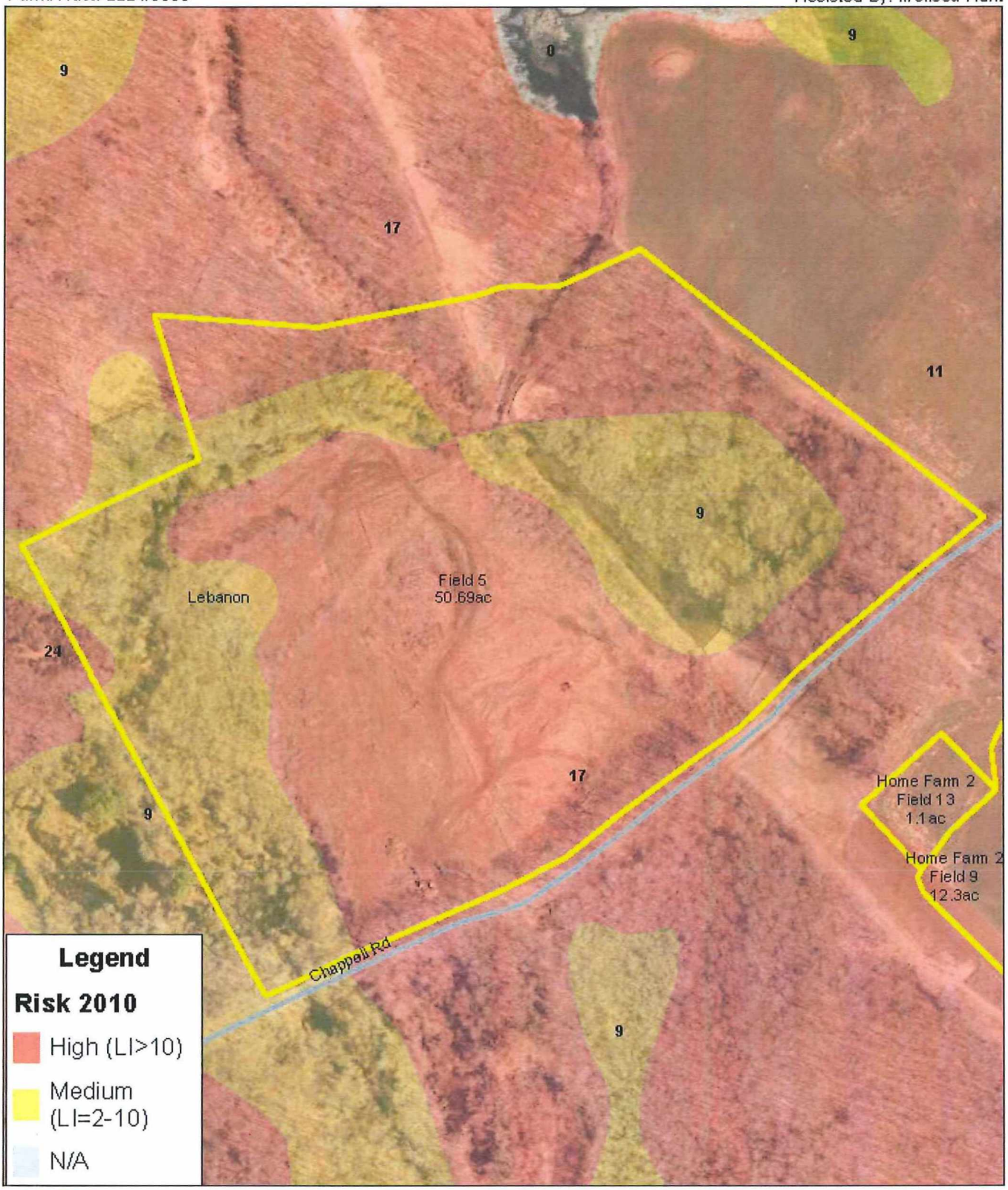
Nitrogen Leaching Index Maps

Nitrogen Leaching Index Map:
50 Acre Chappell Rd

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 2224/8609

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,000

190 0 190 380 570 760 Feet

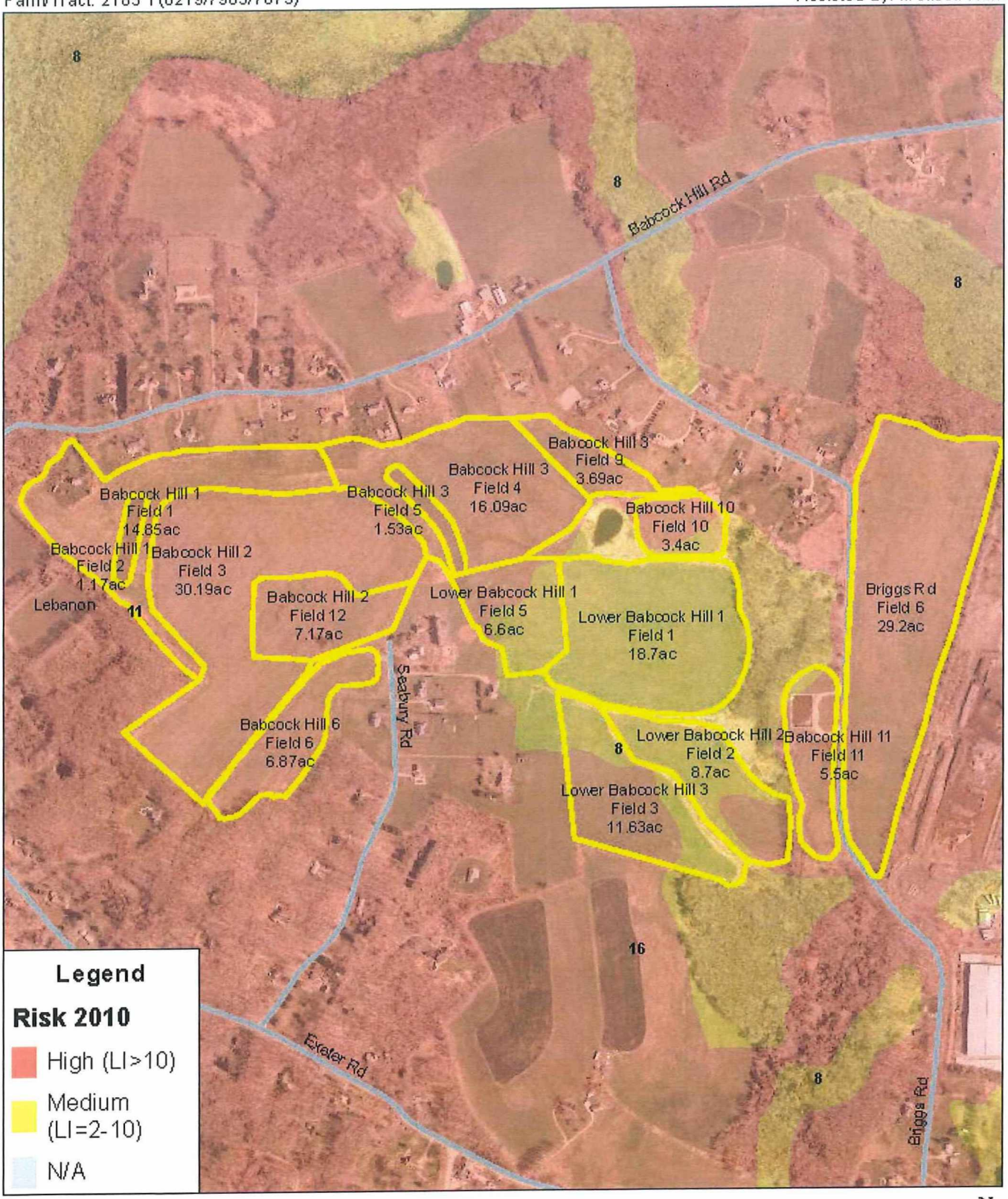
N

Nitrogen Leaching Index Map: Babcock Hill

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 2183 T(8219/7983/7679)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:9,500

460 0 460 920 1,380 1,840 Feet

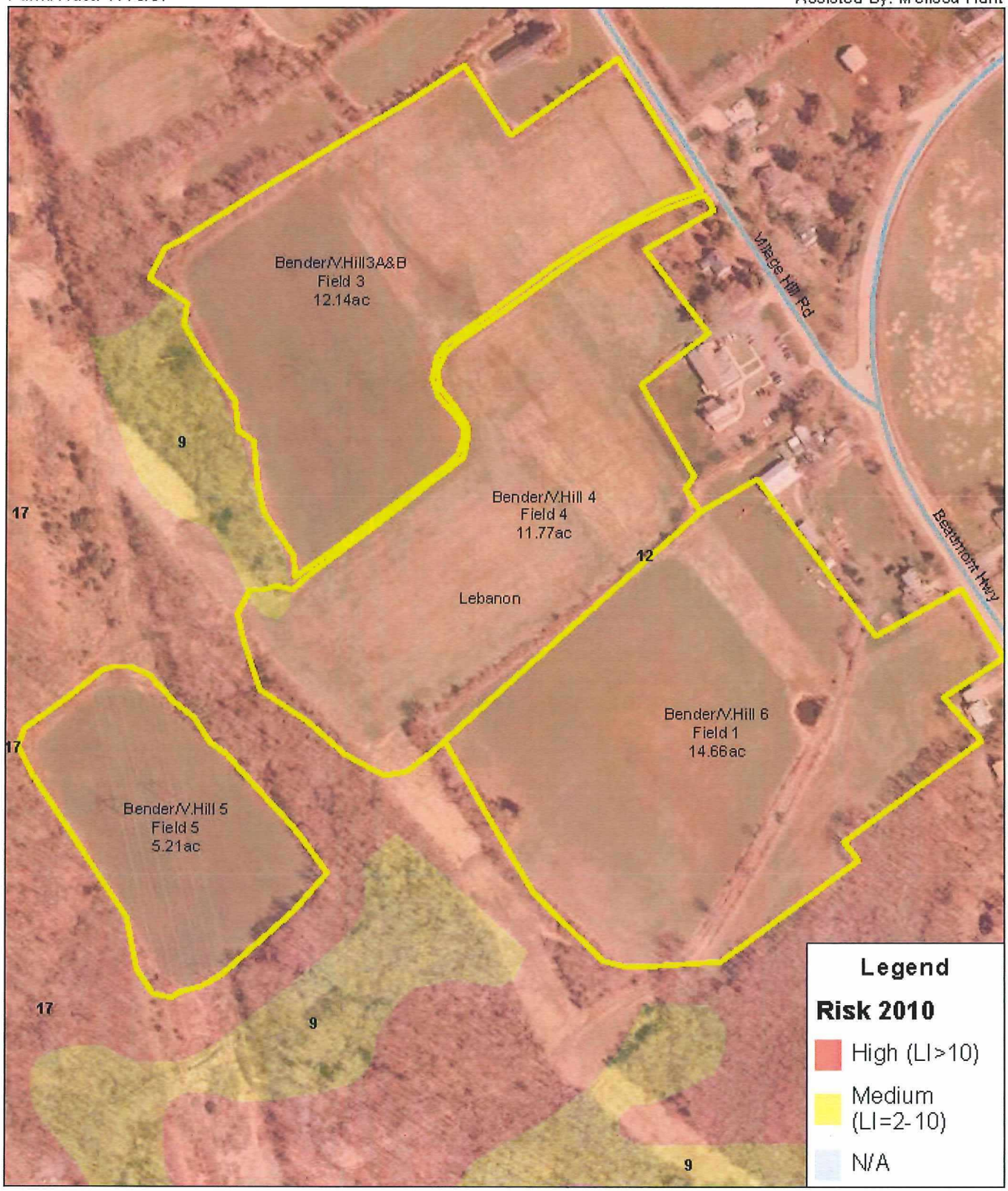
N

Nitrogen Leaching Index: Bender V.Hill

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/67

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

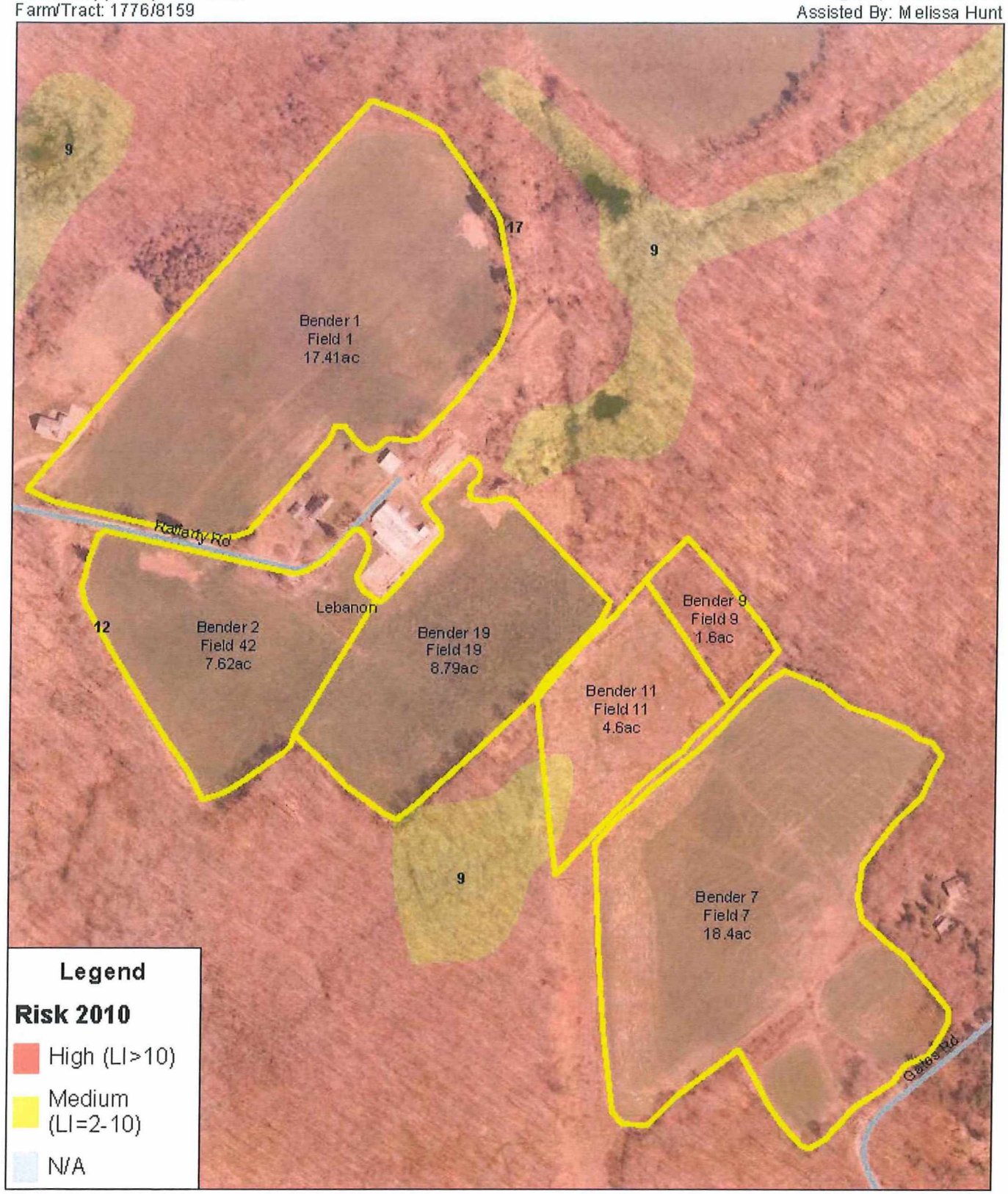
N

Nitrogen Leaching Index Map: Bender

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/8159

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840 Feet

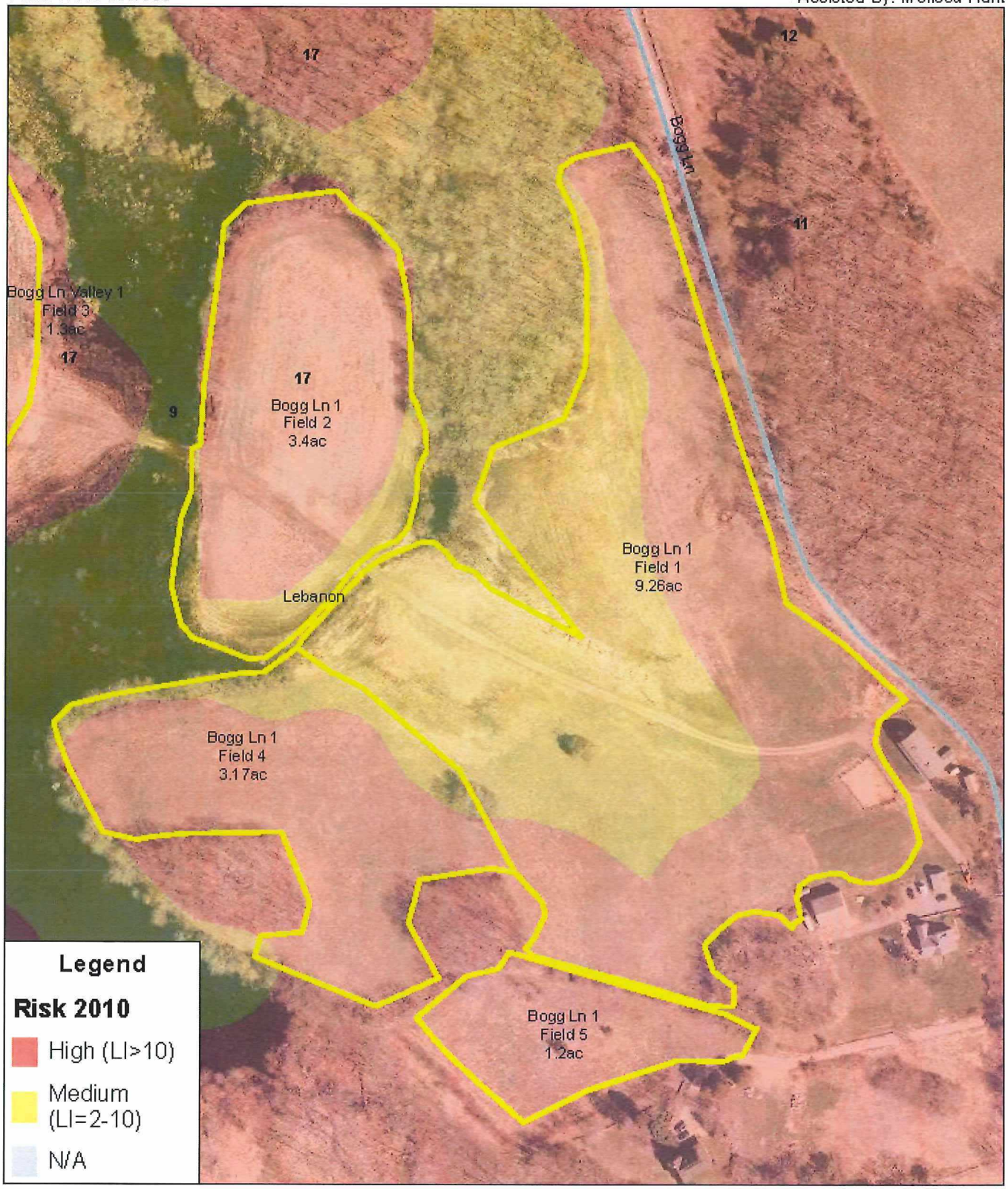
N

Nitrogen Leaching Index Map: Bogg Ln 1

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,250

100 0 100 200 300 400 Feet

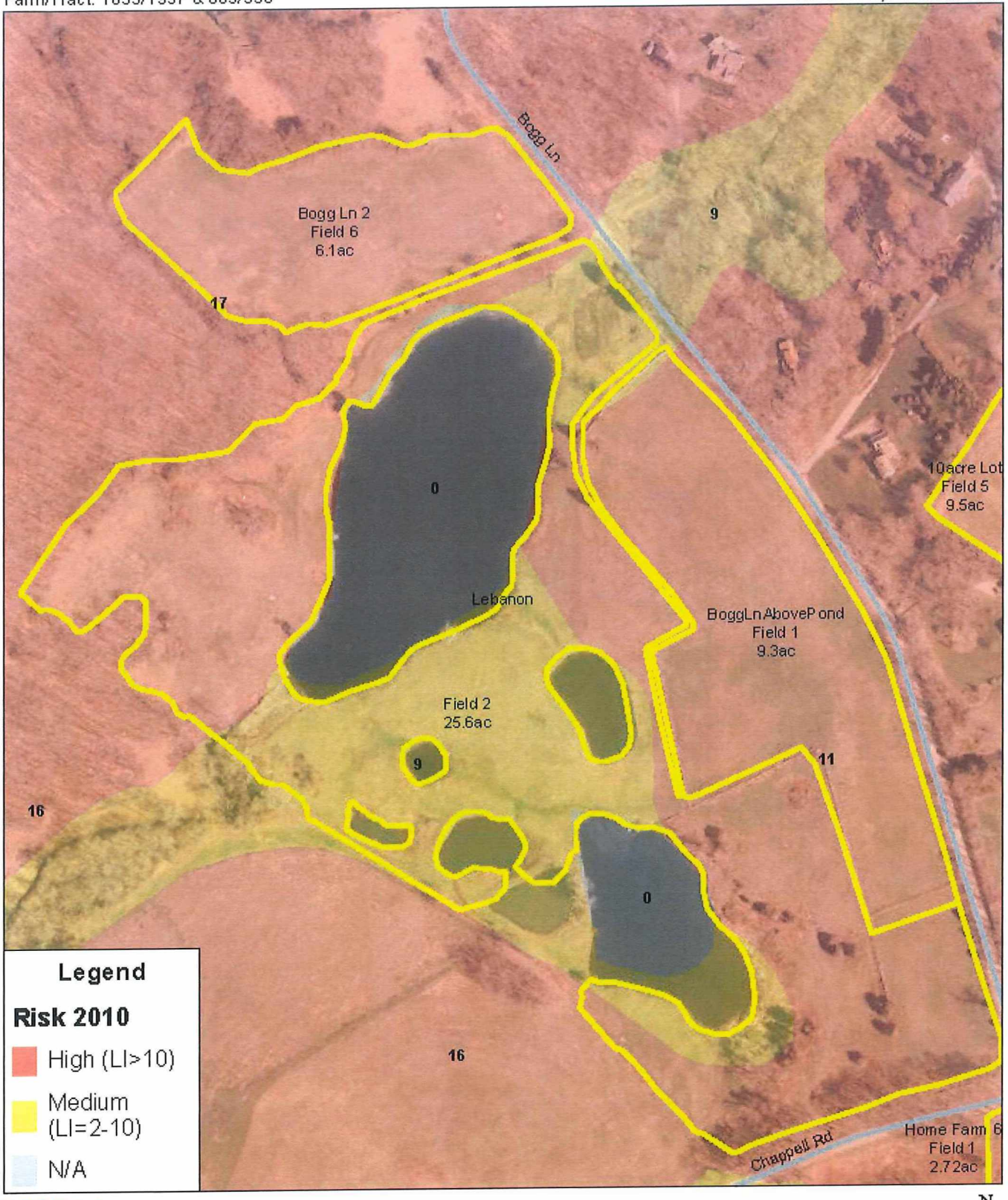
N

Nitrogen Leaching Index Map: Bogg Ln 2

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1855/1957 & 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,600

170 0 170 340 510 680 Feet

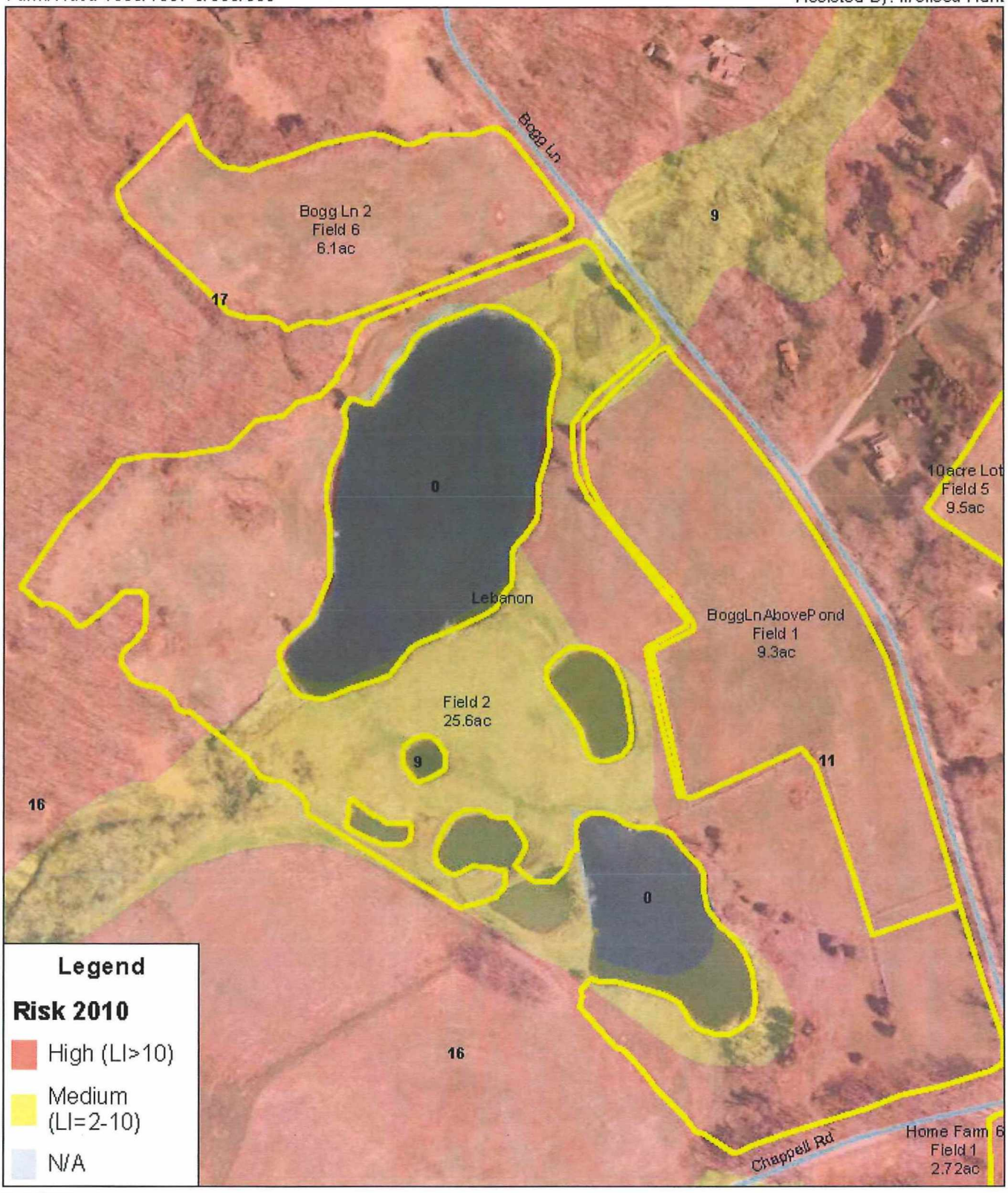
N

Nitrogen Leaching Index Map: Bogg Ln 2

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 1855/1957 & 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,600

170 0 170 340 510 680 Feet

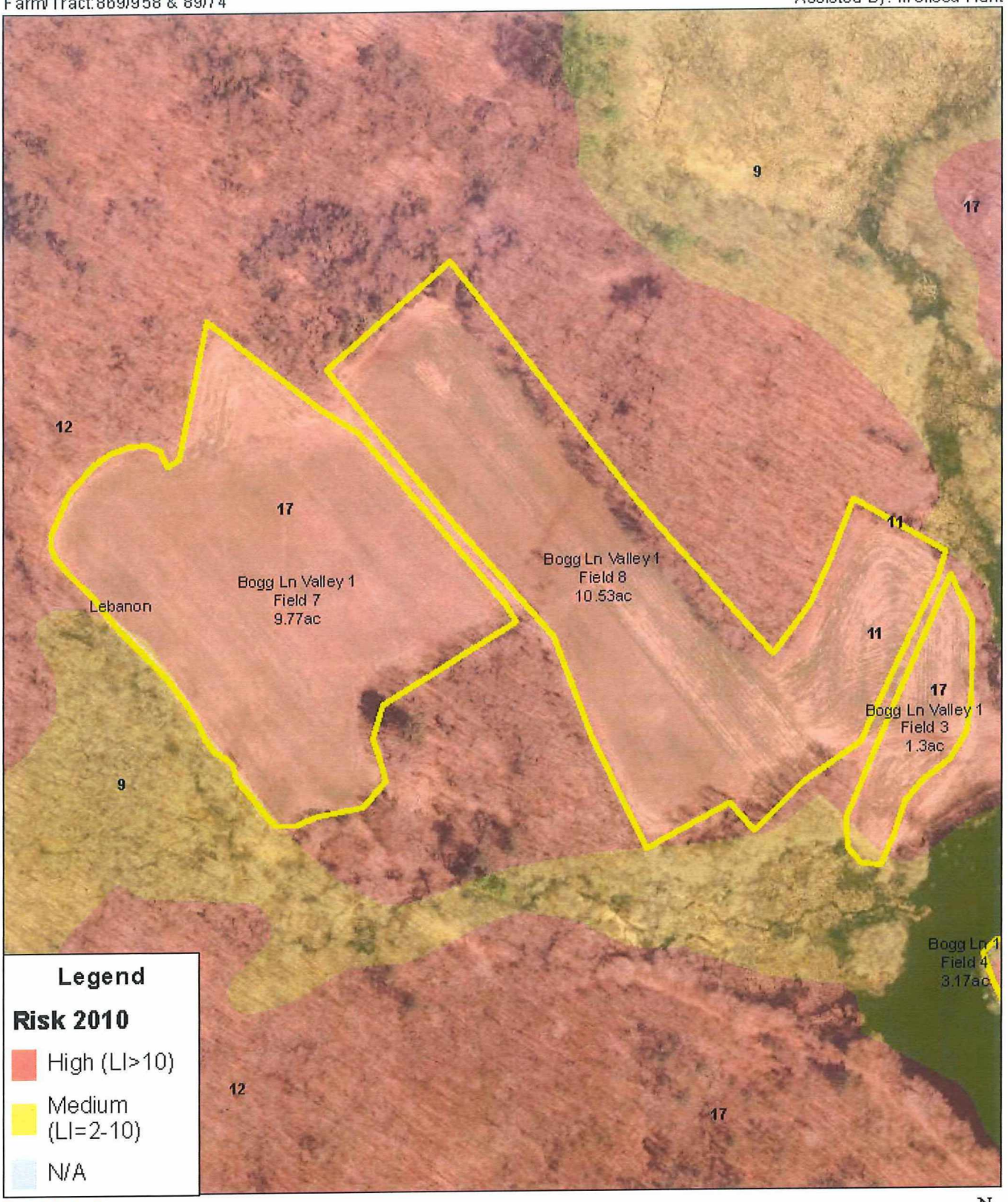
N

Nitrogen Leaching Index Map: Bogg Ln Valley

Date: 05/14/2019

Customer(s): Graywall Farms
Farm/Tract: 869/958 & 89/74

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

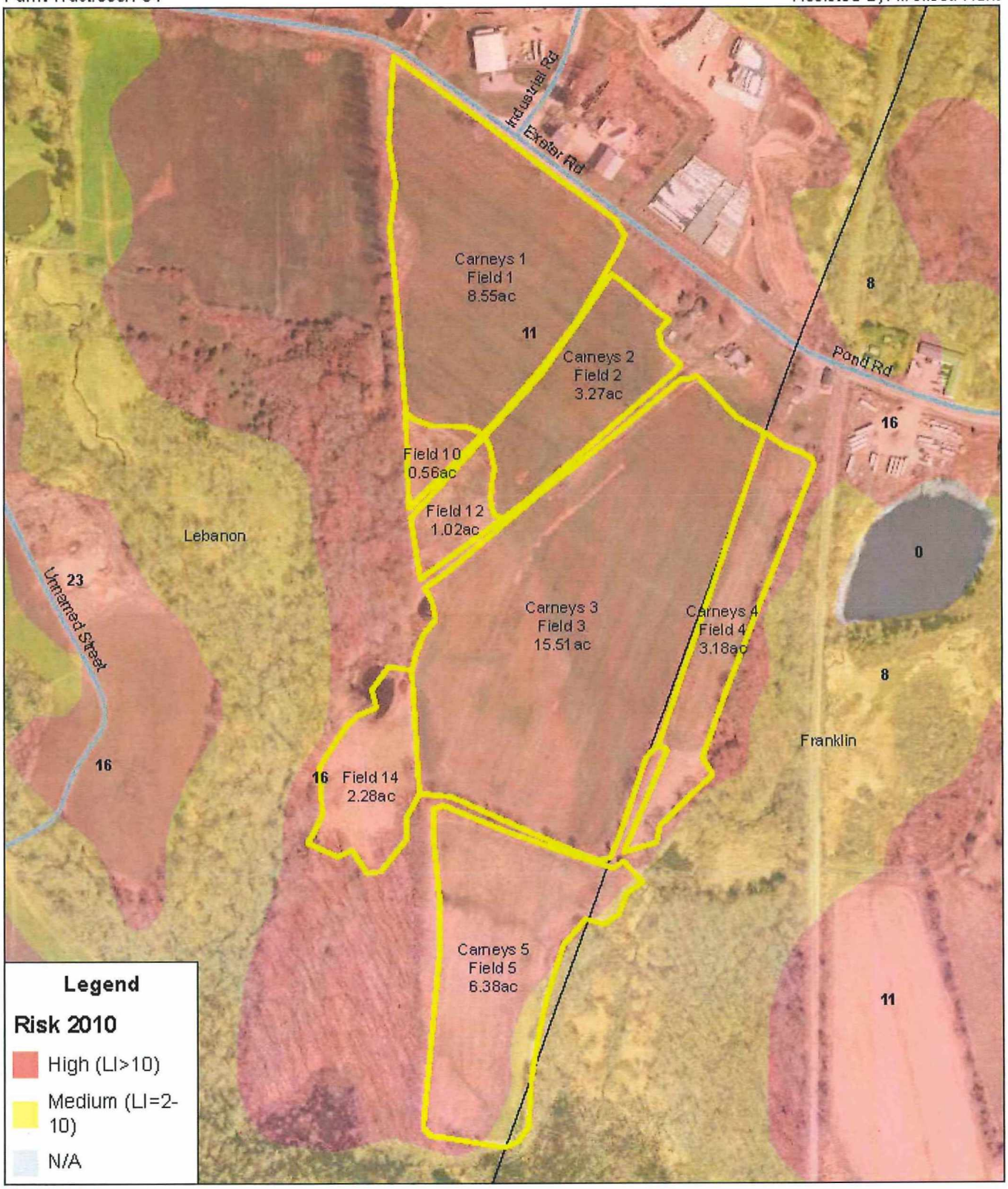
N

Nitrogen Leaching Index Map: Carneys

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 366/704

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840 Feet

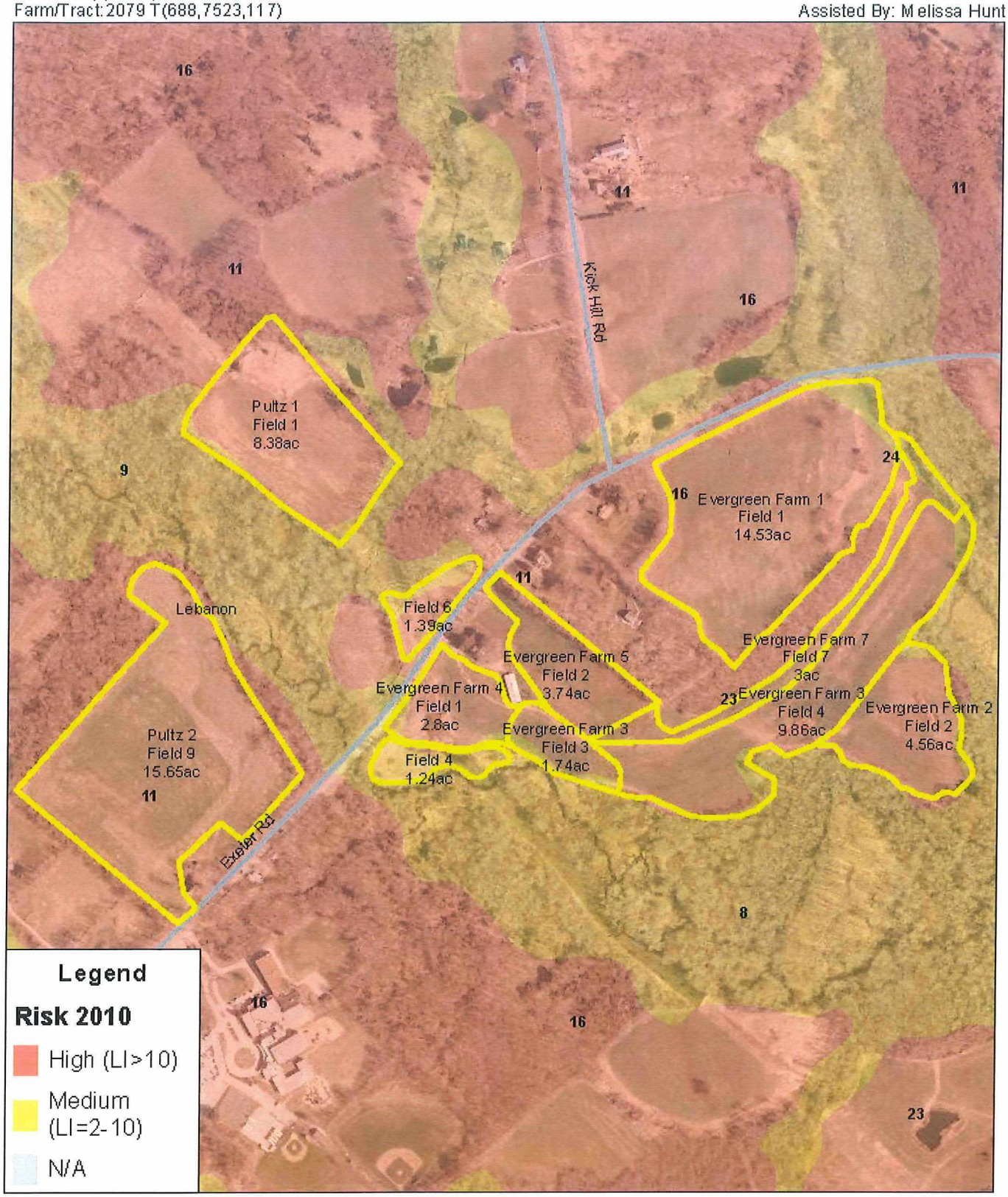
N

Nitrogen Leaching Index Map: Evergreen/Pultz

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079 T(688,7523,117)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:6,500

310 0 310 620 930 1,240 Feet

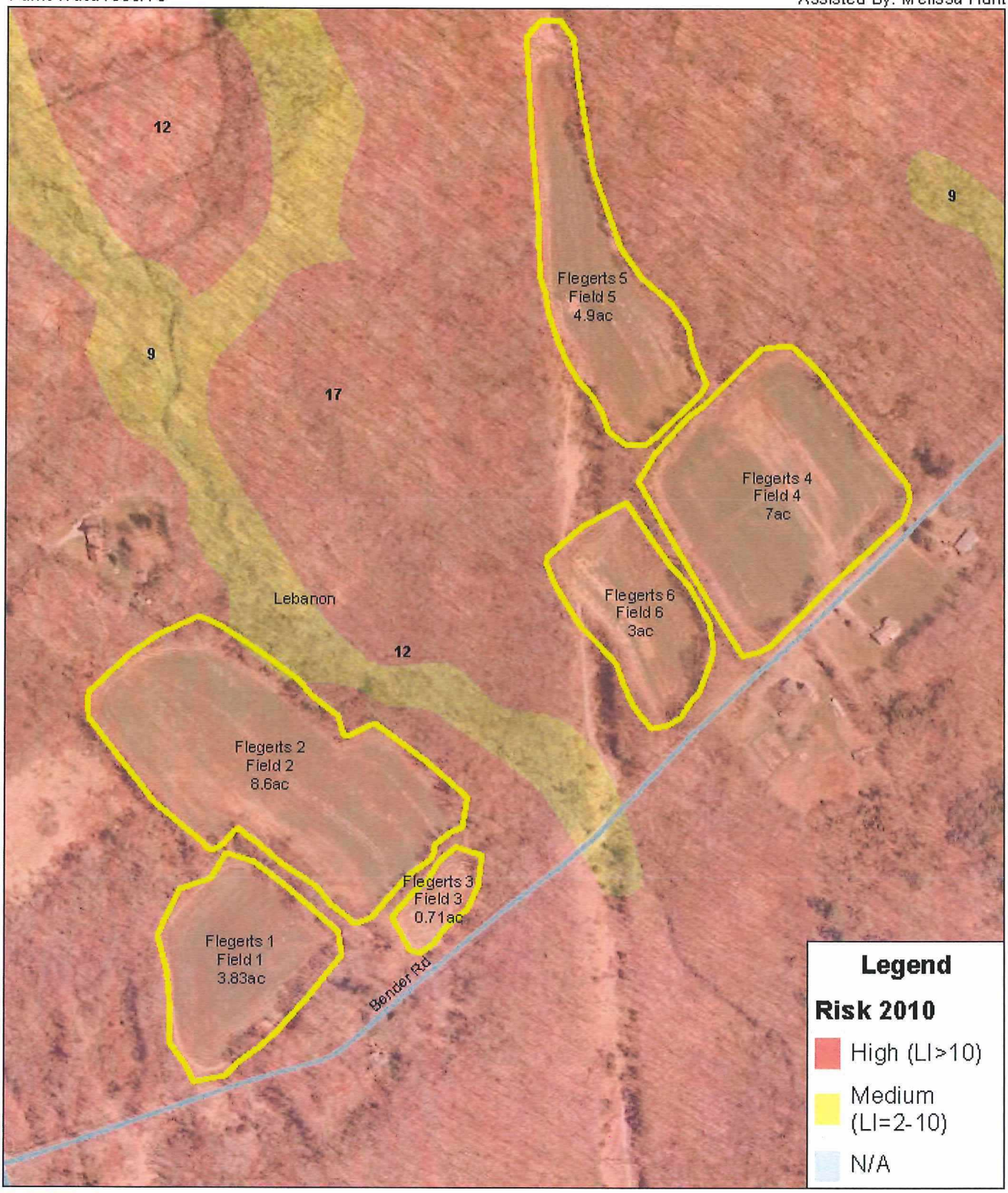
N

Nitrogen Leaching Index Map: Flegerts

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:1008/73

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,300

200 0 200 400 600 800 Feet

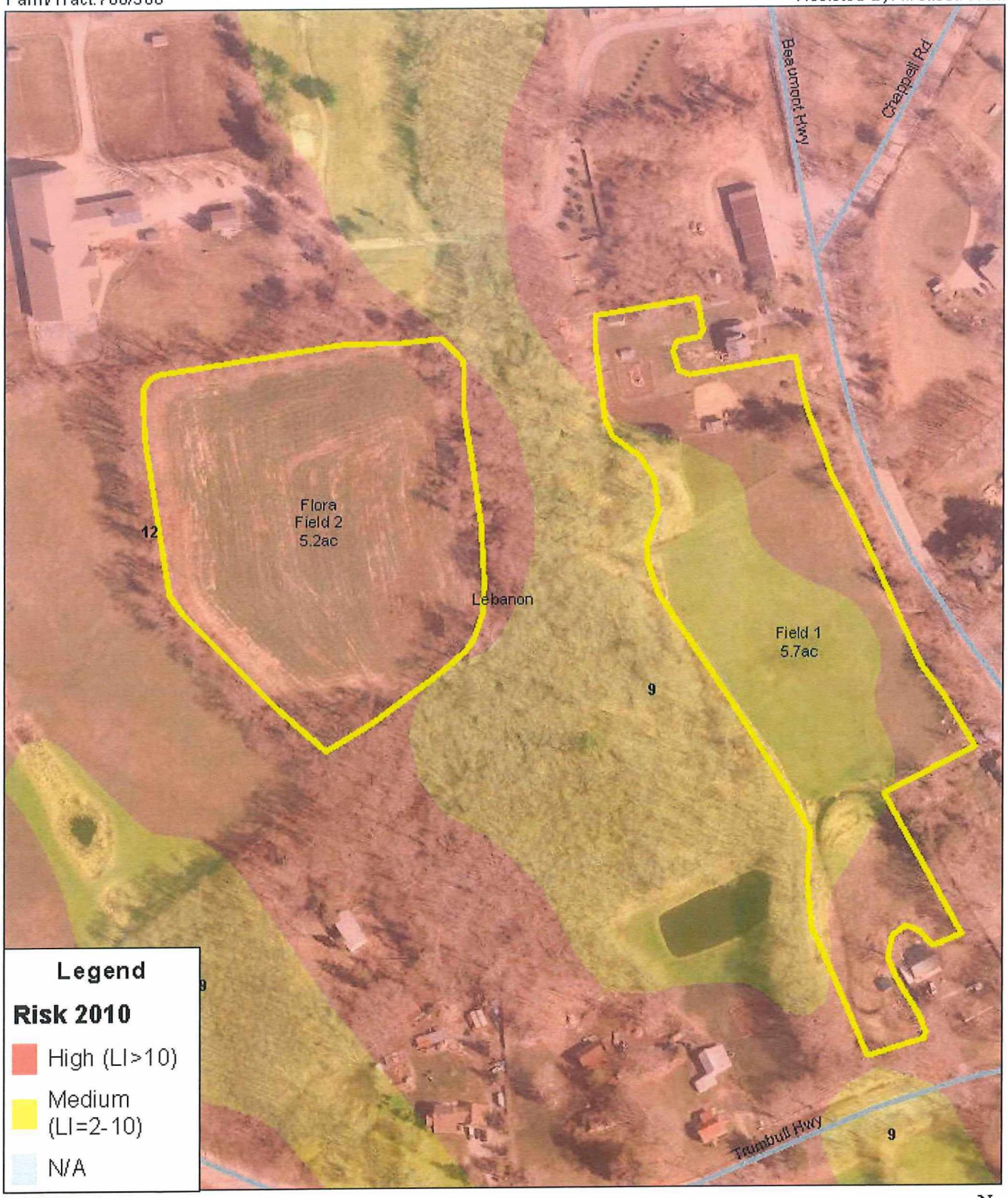
N

Nitrogen Leaching Index Map: Flora

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:768/560

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

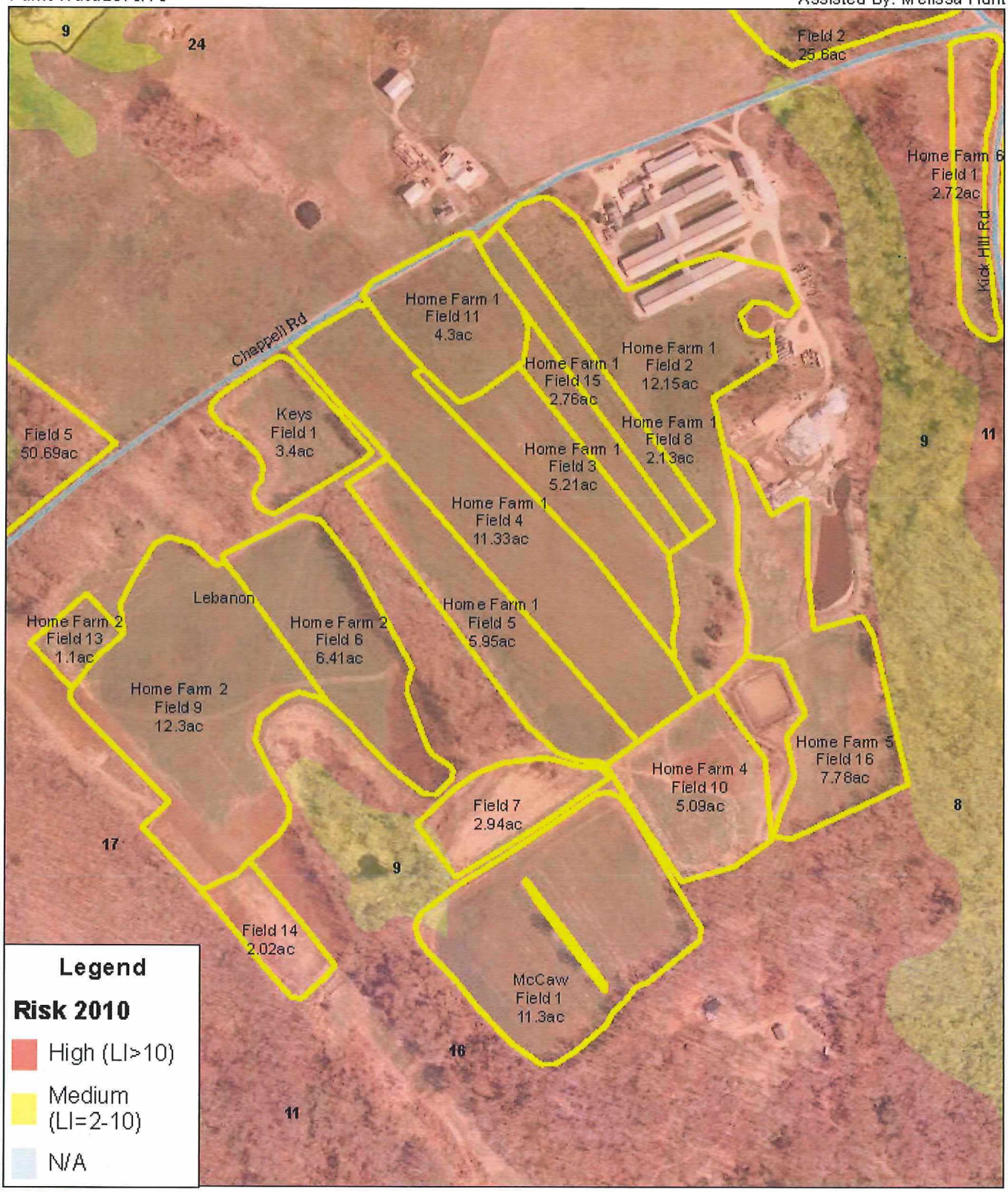
N

Nitrogen Leaching Index Map: Home Farm

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/76

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,750

275 0 275 550 825 1,100 Feet

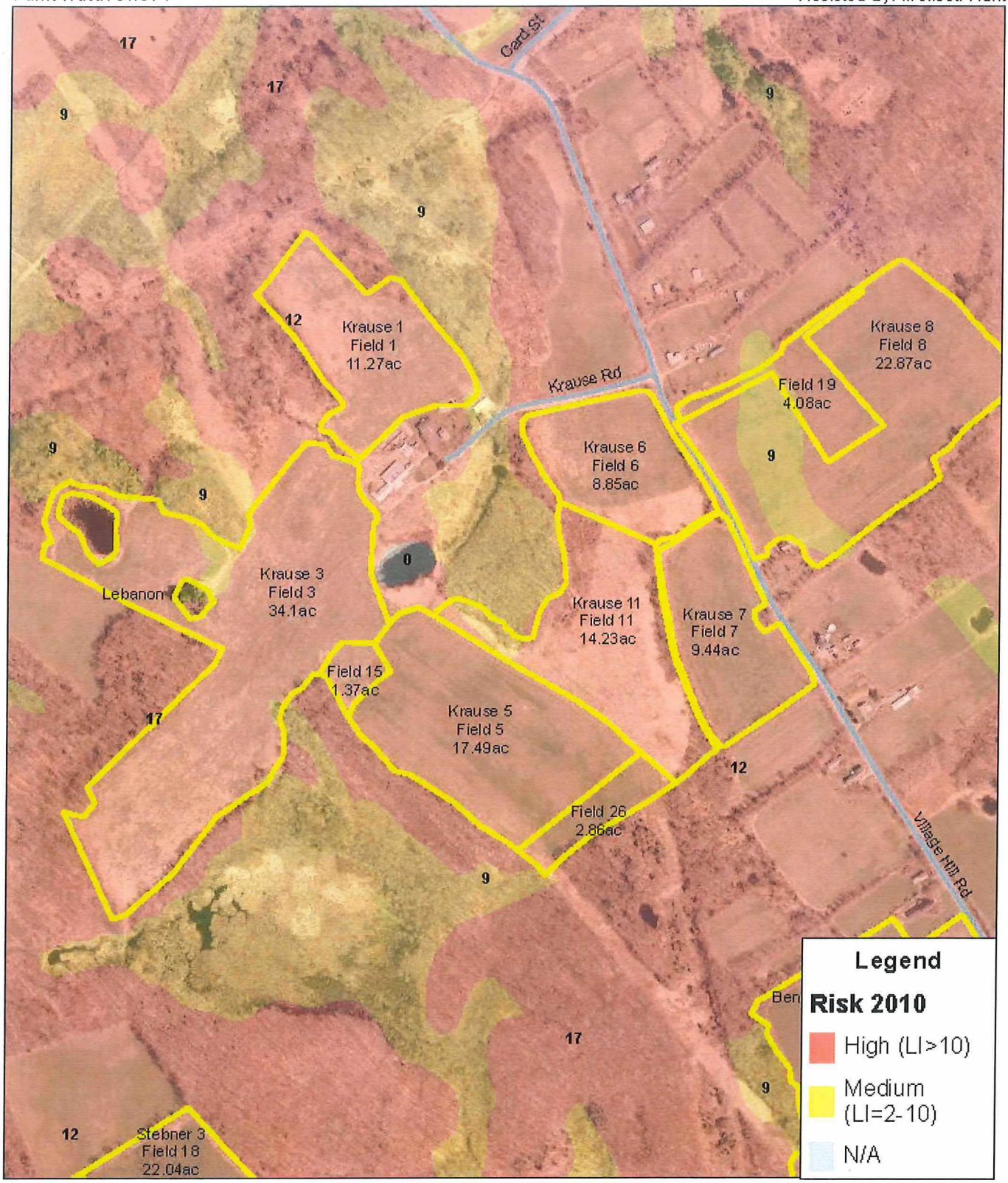
N

Nitrogen Leaching Index Map: Krause

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:781/574

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,750

375 0 375 750 1,125 1,500 Feet

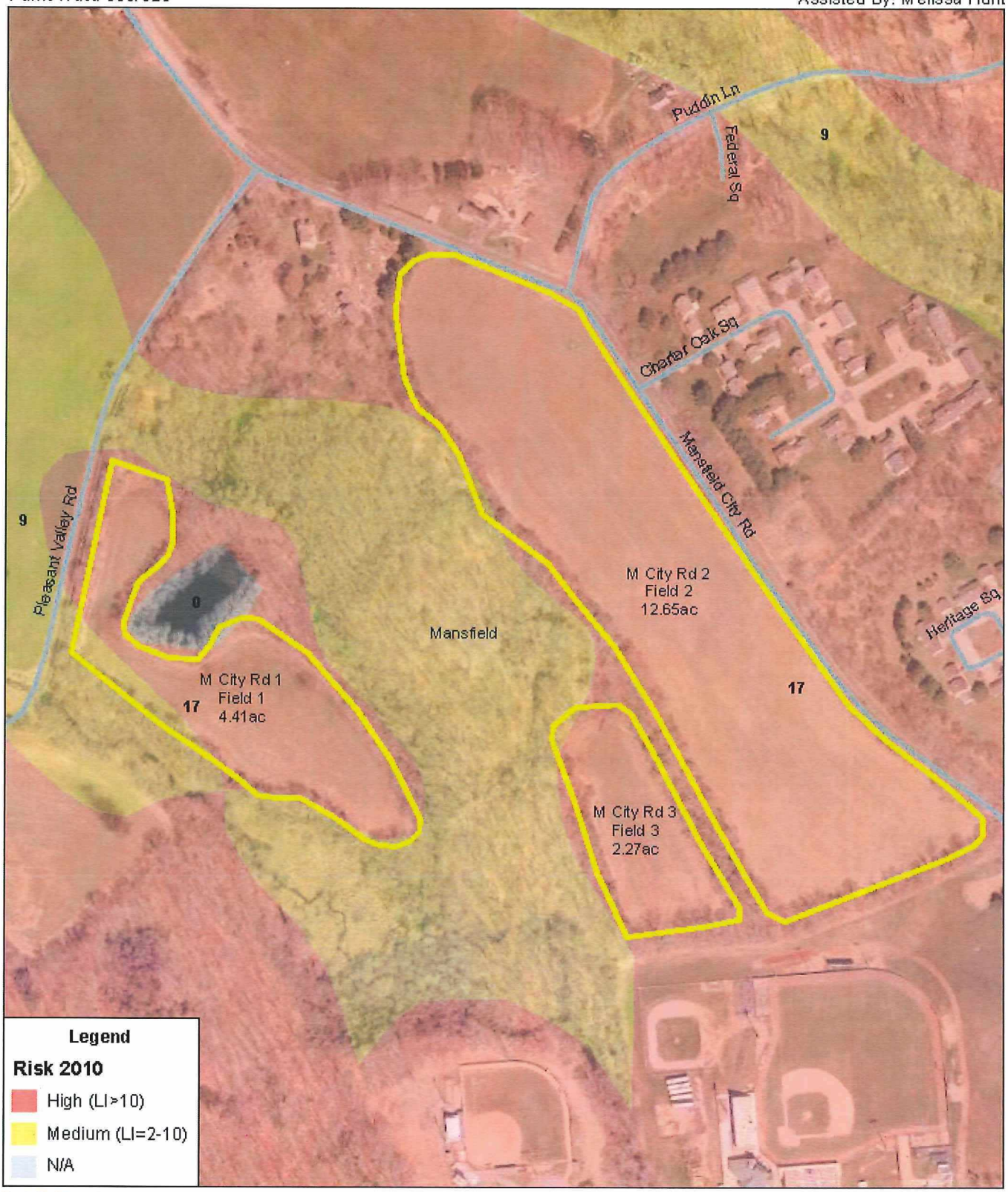
N

Nitrogen Leaching Index Map:
M City Rd

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 906/928

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

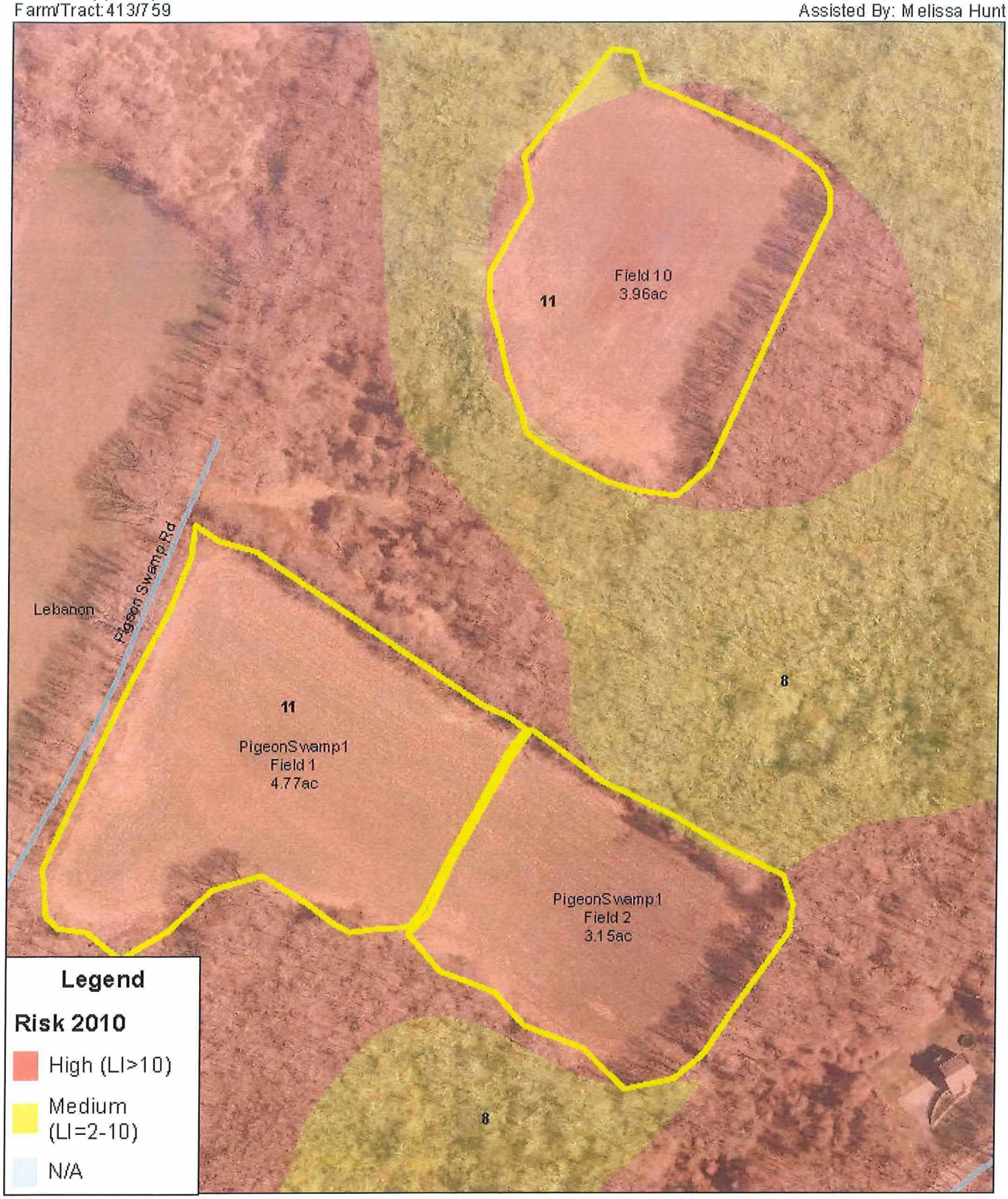
N

Nitrogen Leaching Index Map: Pigeon Swamp

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 413/759

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,250

100 0 100 200 300 400 Feet

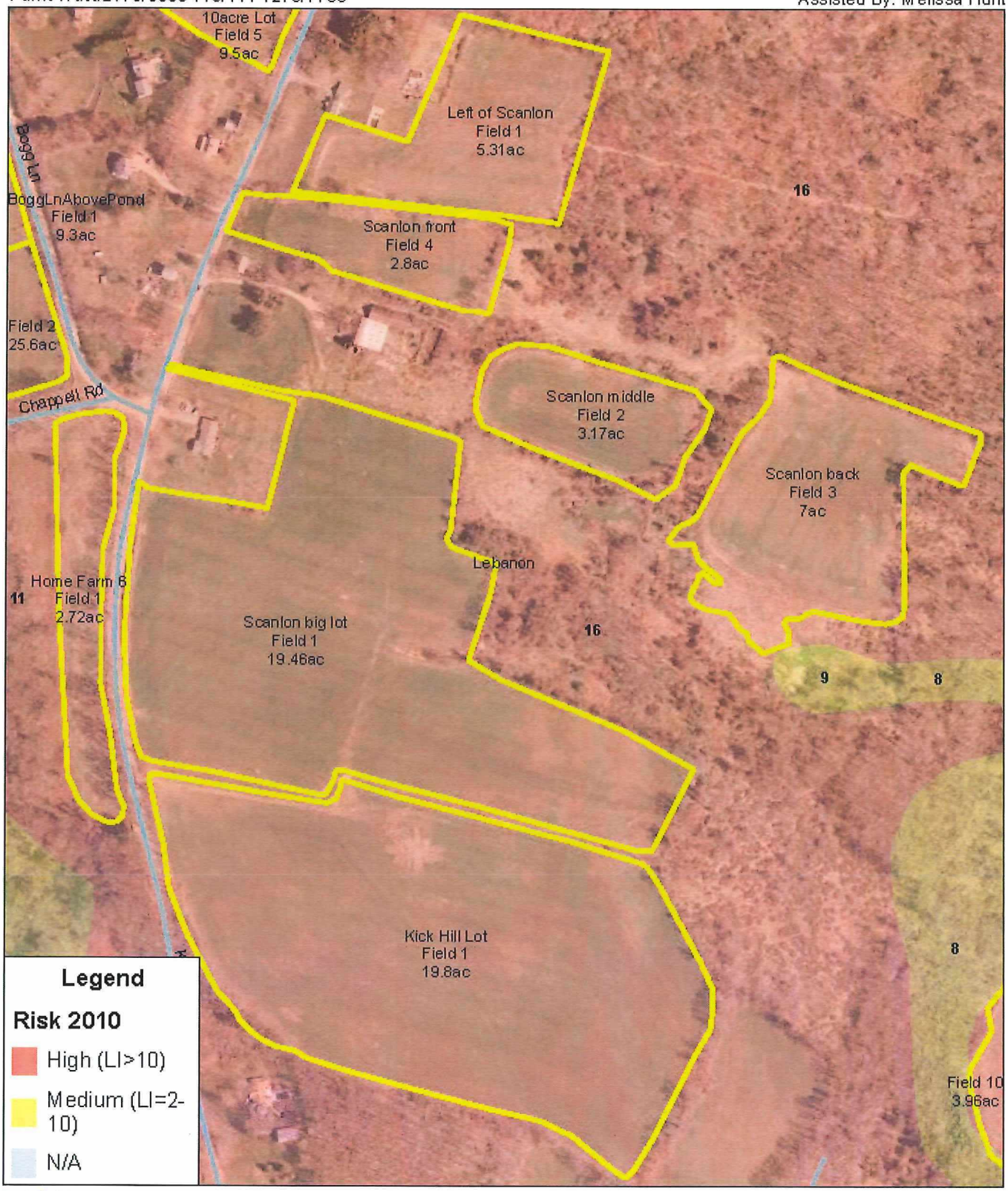
N

Nitrogen Leaching Index Map: Scanlon

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2179/8555 119/111 1273/7766

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,250

200 0 200 400 600 800 Feet

N

Nitrogen Leaching Index Map: Scanton Pumpkin

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 119/(756/7532)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,750

130 0 130 260 390 520 Feet

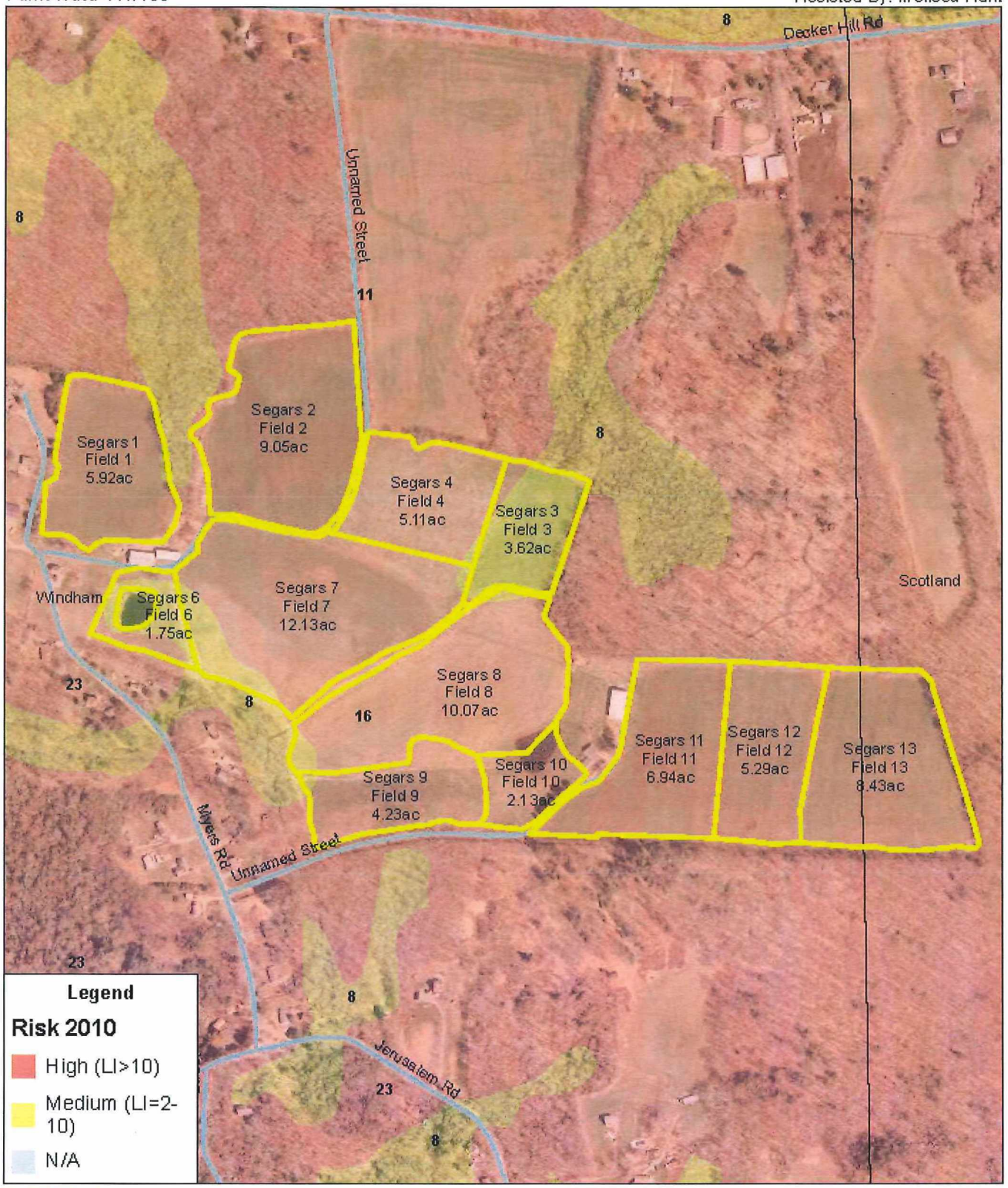
N

Nitrogen Leaching Index Map: Segars

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 441/135

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:6,500

310 0 310 620 930 1,240 Feet

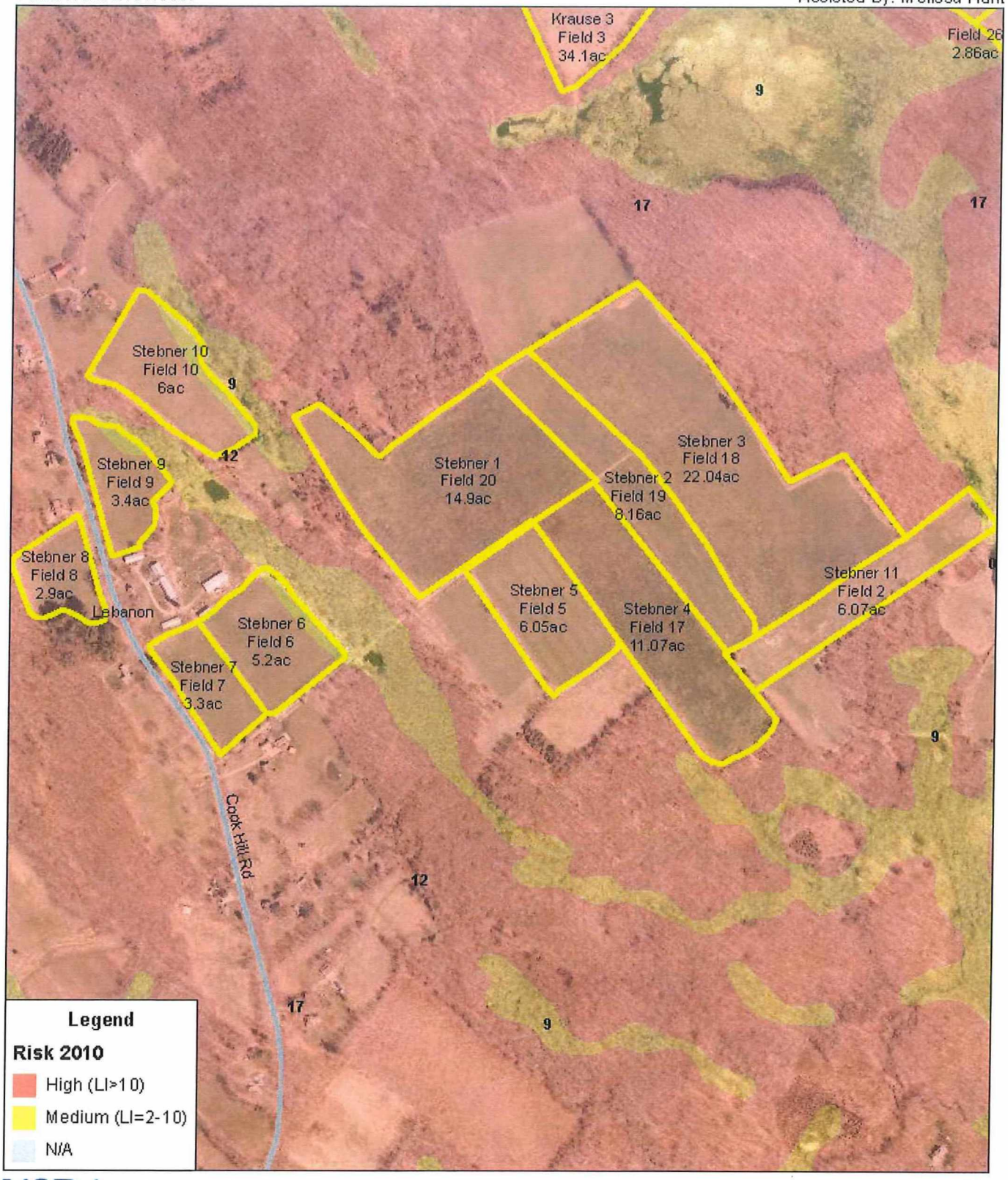
N

Nitrogen Leaching Index Map: Stebner

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2181/8557

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,600

360 0 360 720 1,080 1,440 Feet

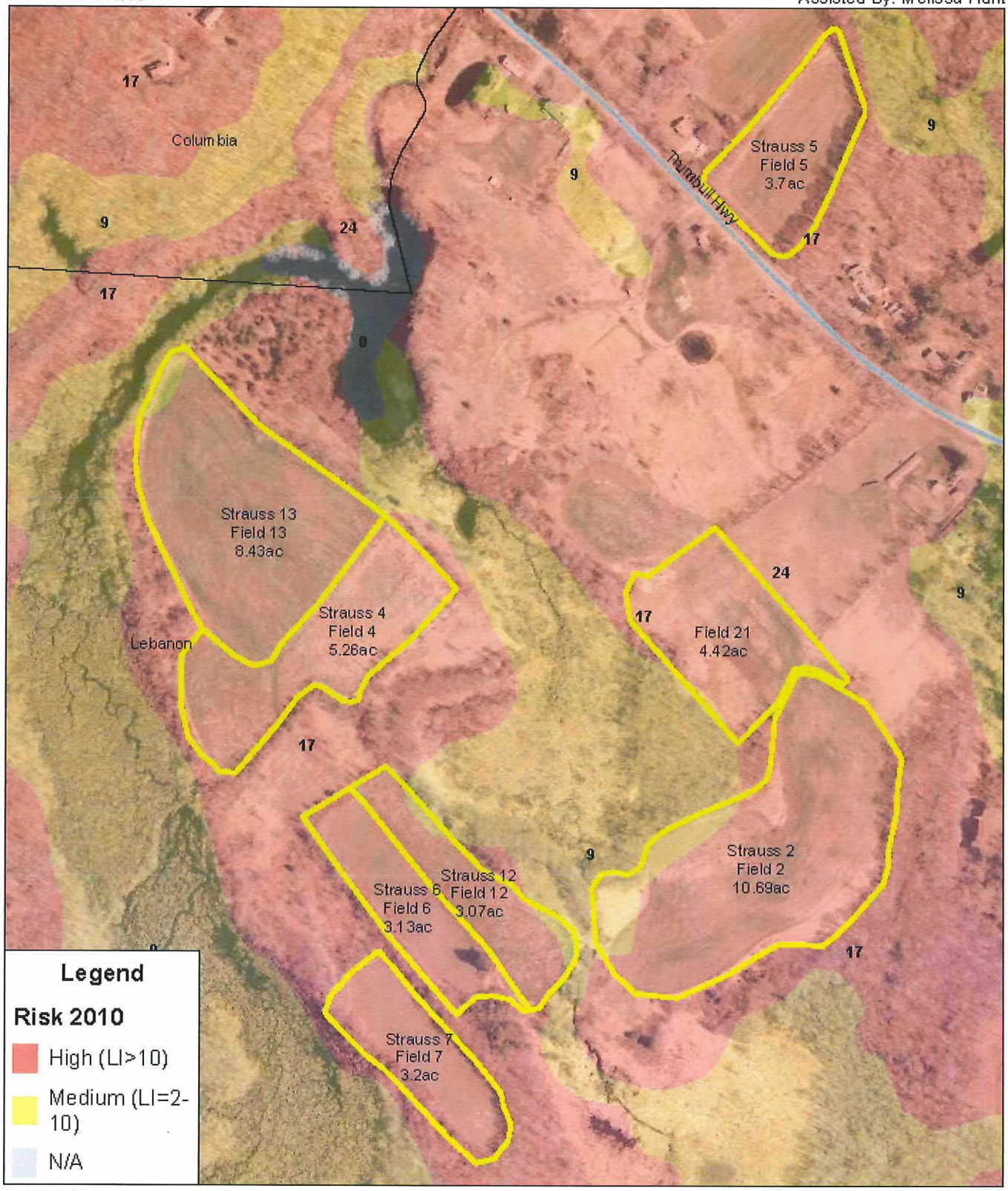
N

Nitrogen Leaching Index Map; Strauss

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:50/33

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,000

240 0 240 480 720 960 Feet

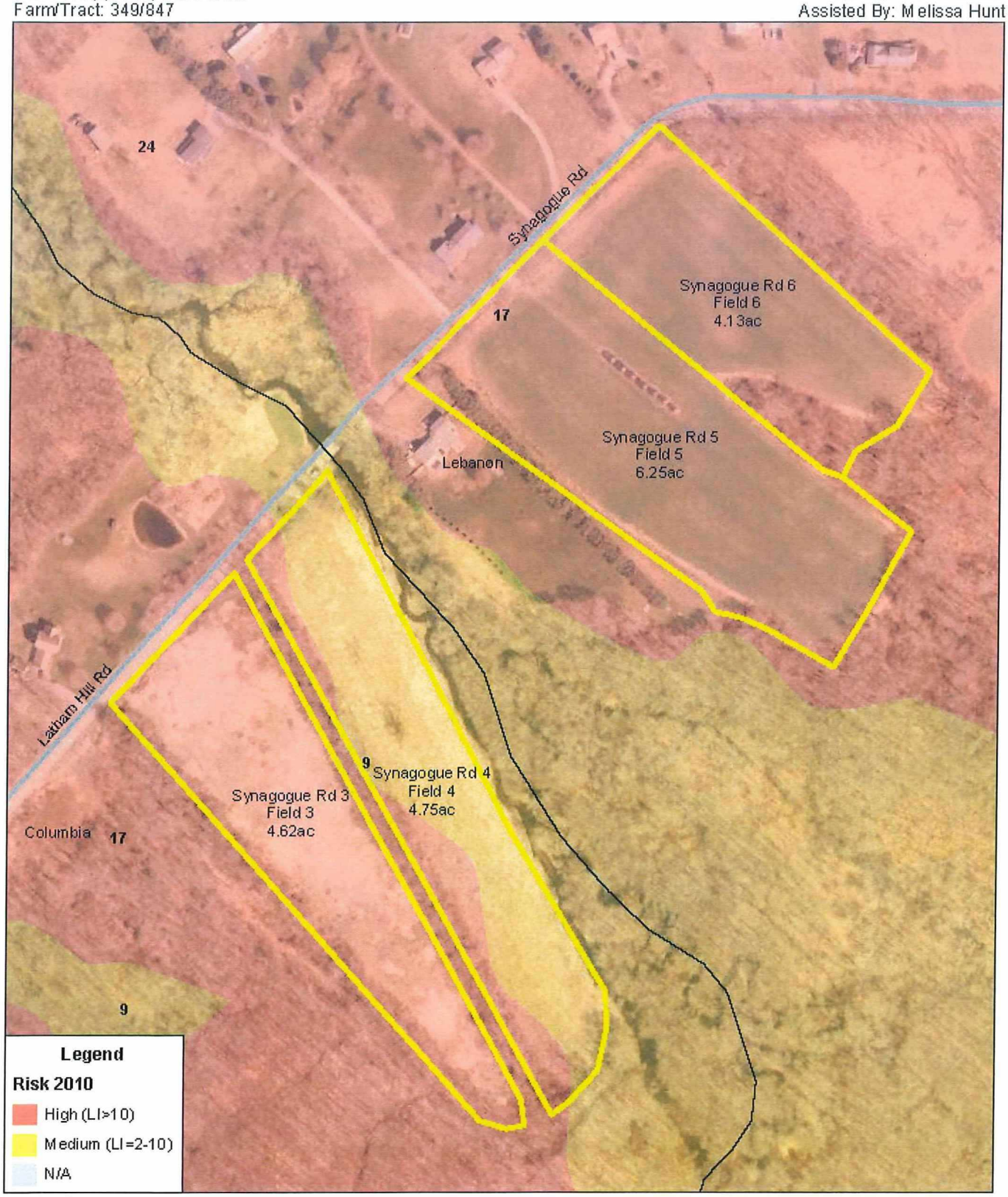
N

Nitrogen Leaching Index Map: Synagogue Rd

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 349/847

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,000

140 0 140 280 420 560 Feet

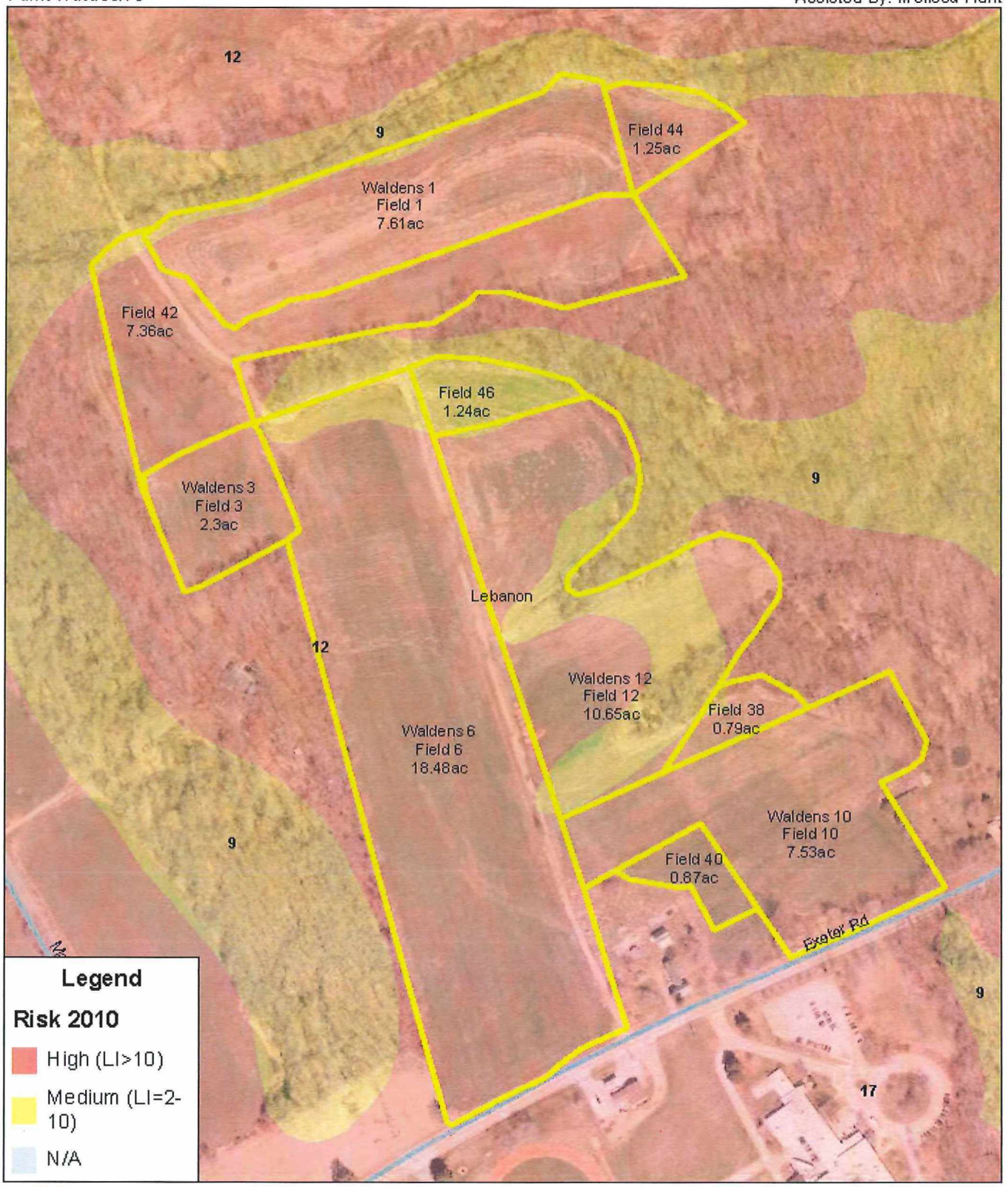
N

Nitrogen Leaching Index Map: Waldens

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract:93/78

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,250

200 0 200 400 600 800 Feet

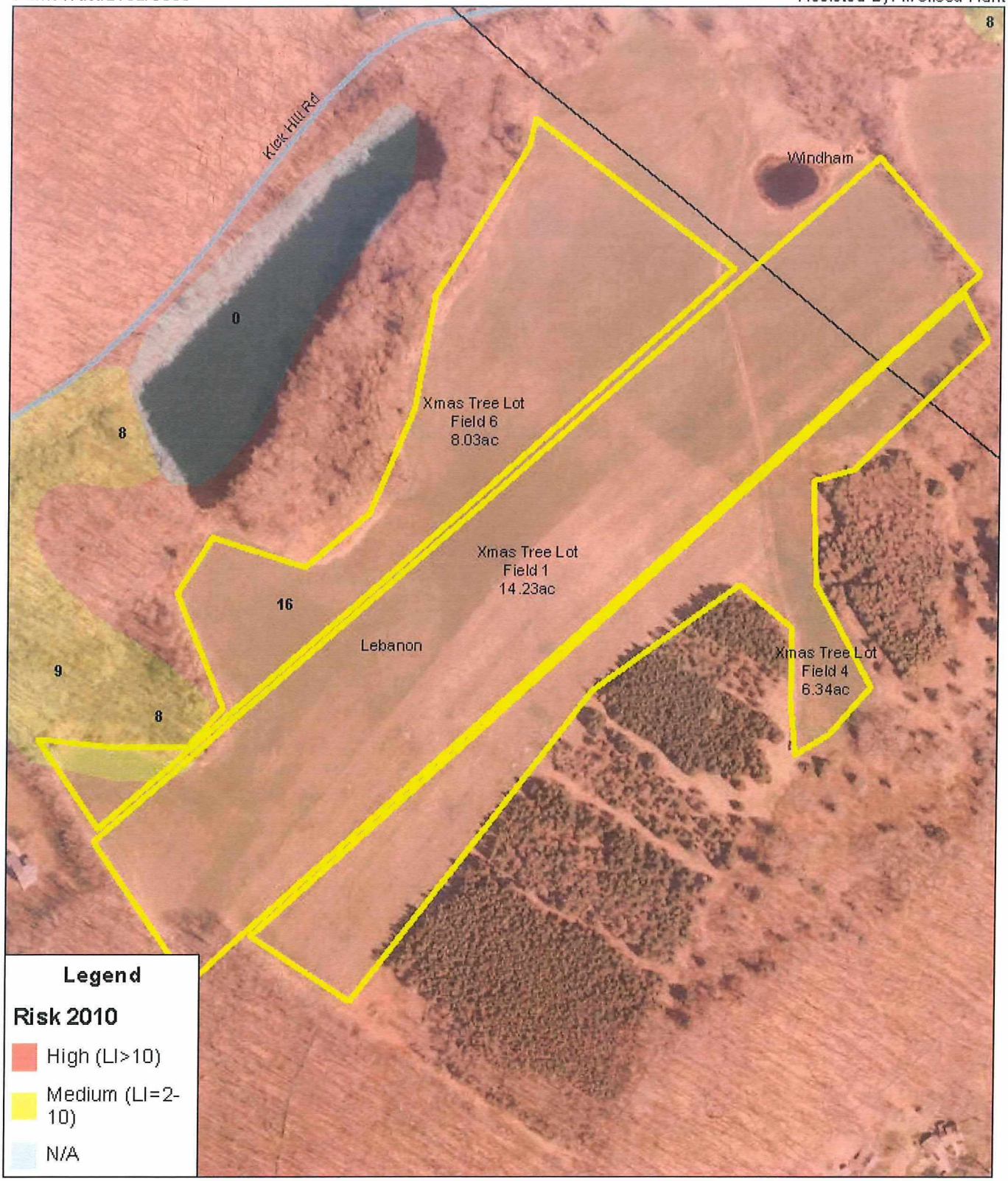
N

Nitrogen Leaching Index Map: Xmas Tree Lot

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2182/8558

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

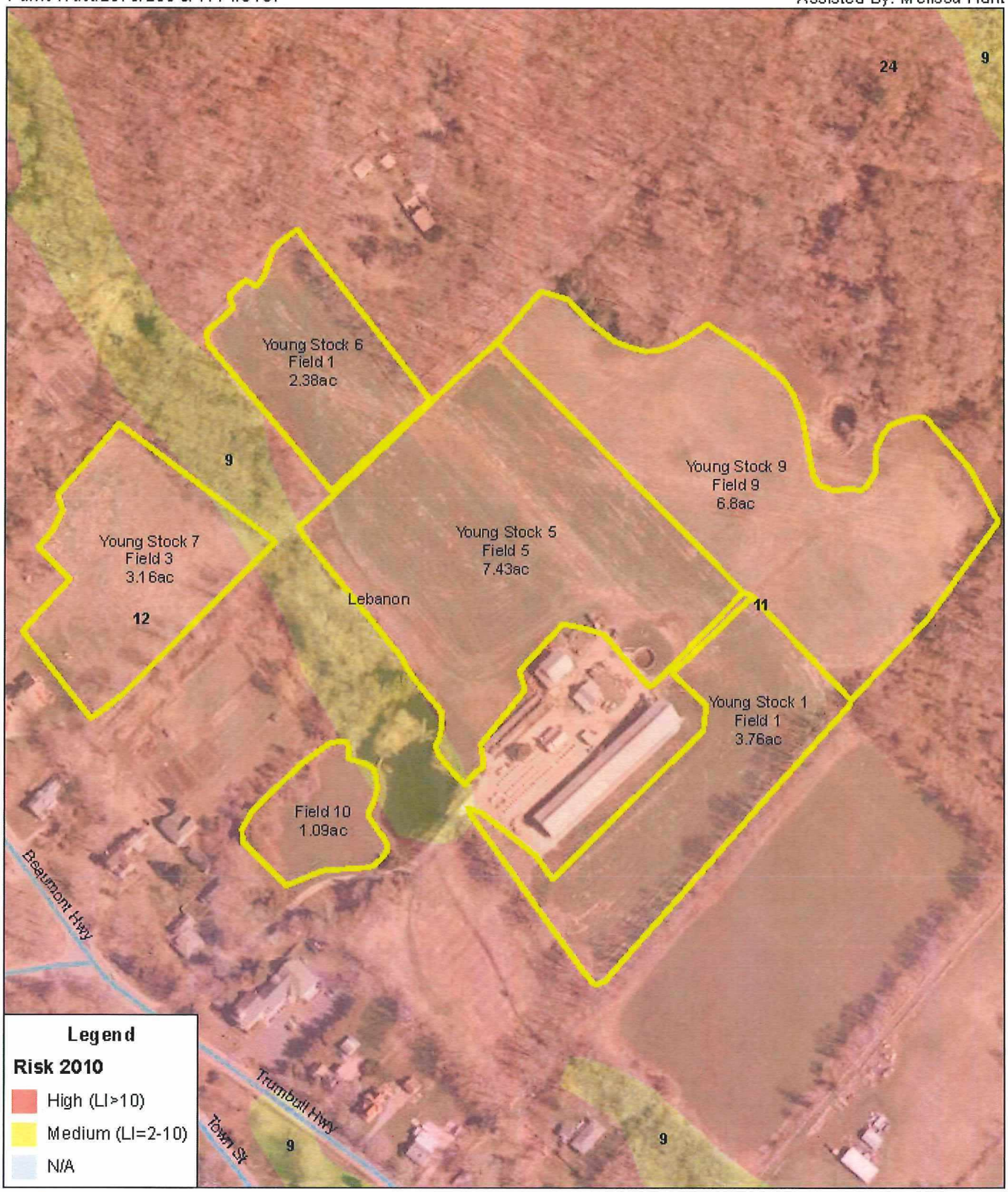
N

Nitrogen Leaching Index: Young Stock

Date: 02/13/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/280 & 1774/8157

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

N

Appendix E

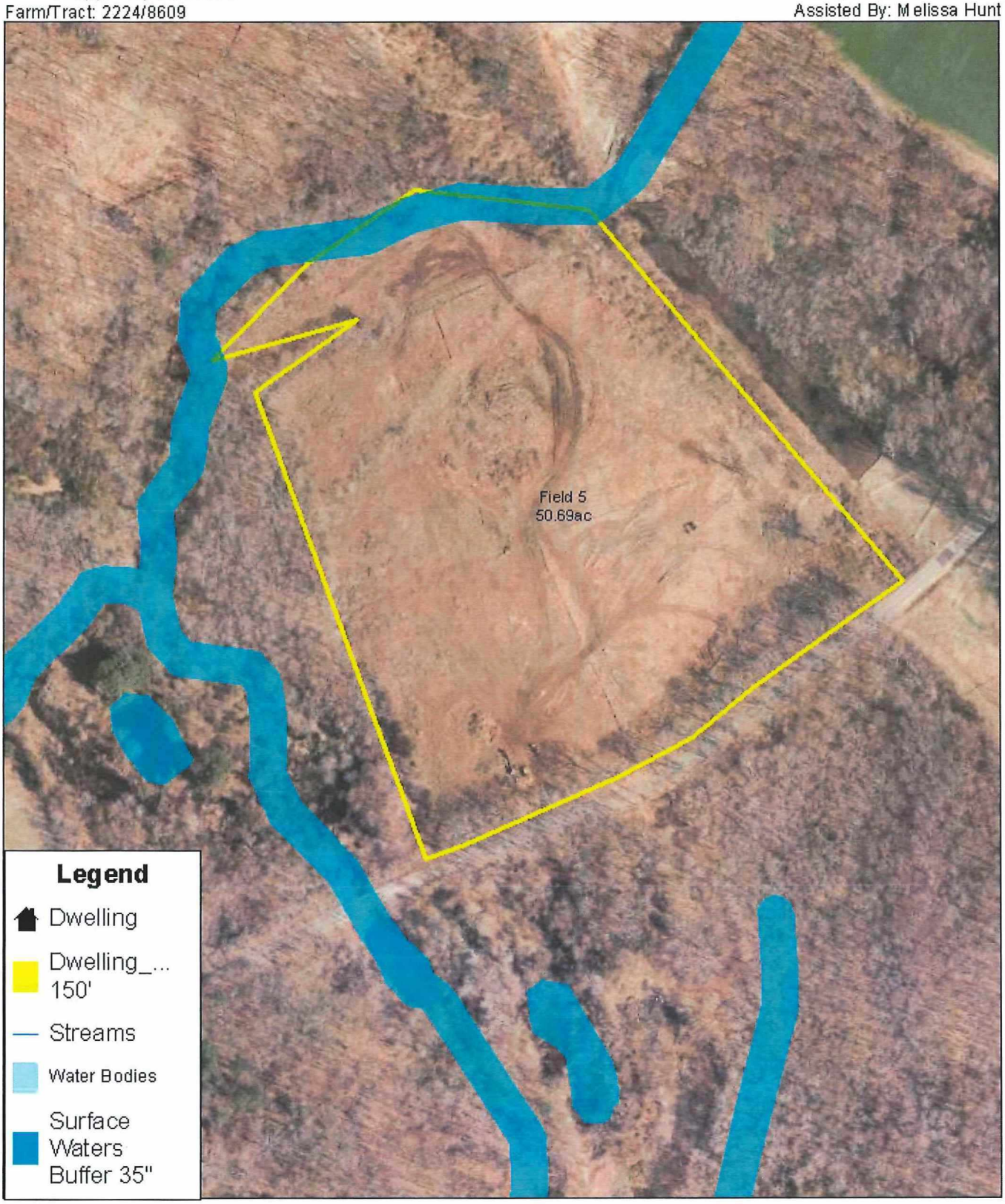
Manure Setback Distance Map

Setback Distance Map: Chappell Rd Field

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 2224/8609

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

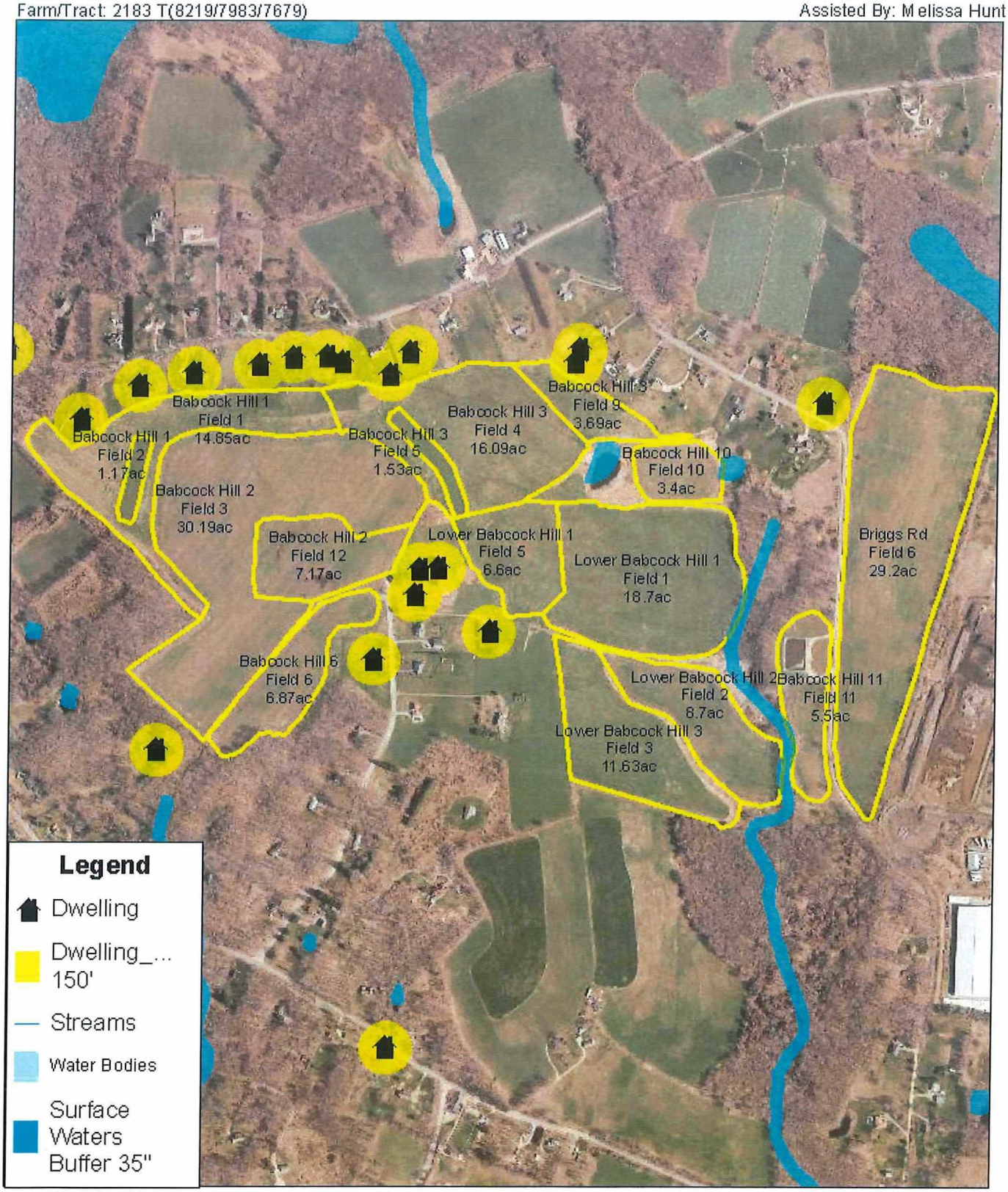
N

Setback Distance Map: Babcock Hill Rd

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 2183 T(8219/7983/7679)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:9,500

460 0 460 920 1,380 1,840 Feet

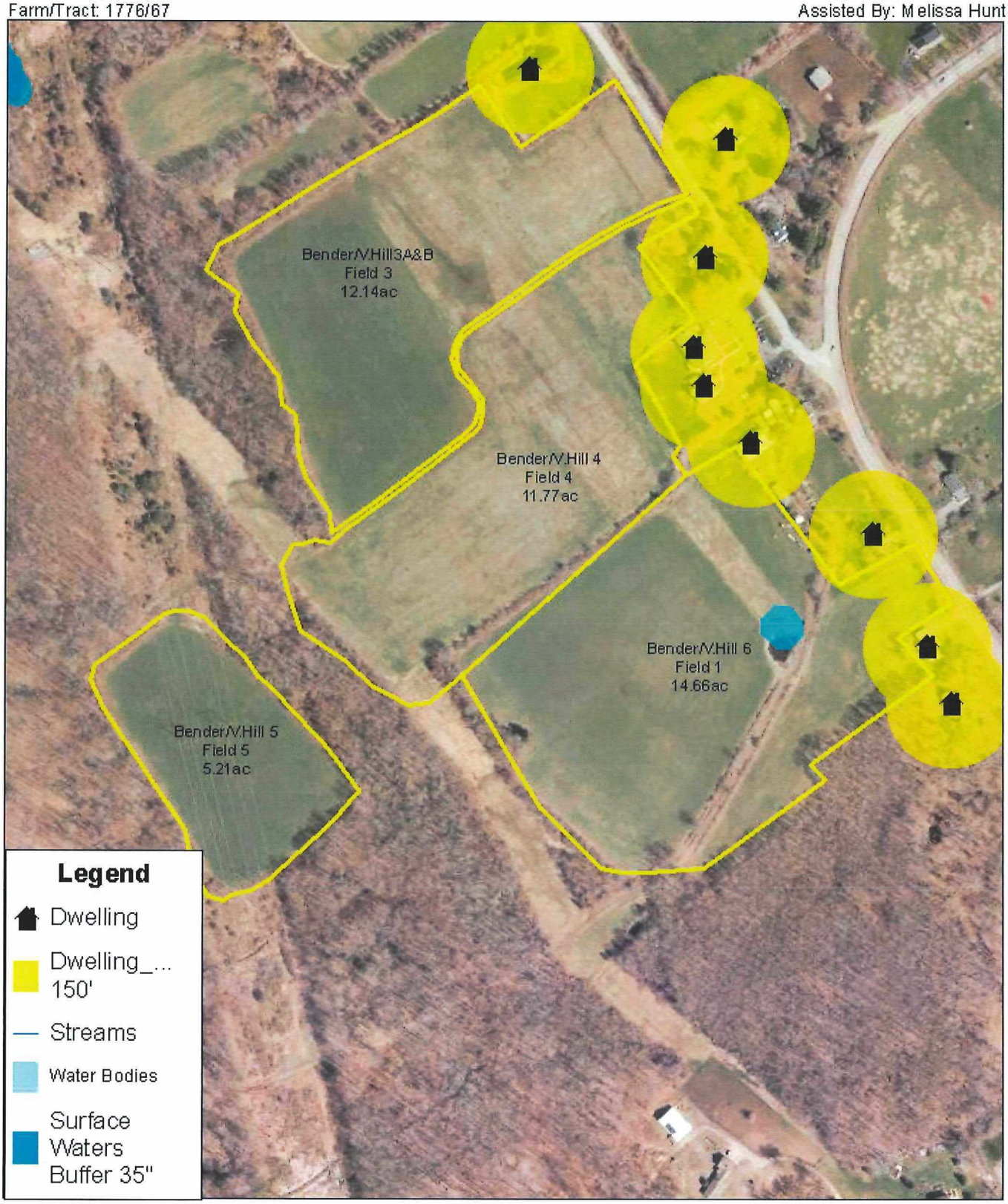
N

Setback Distance Map: Bender/V Hill

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/67

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,000

190 0 190 380 570 760 Feet

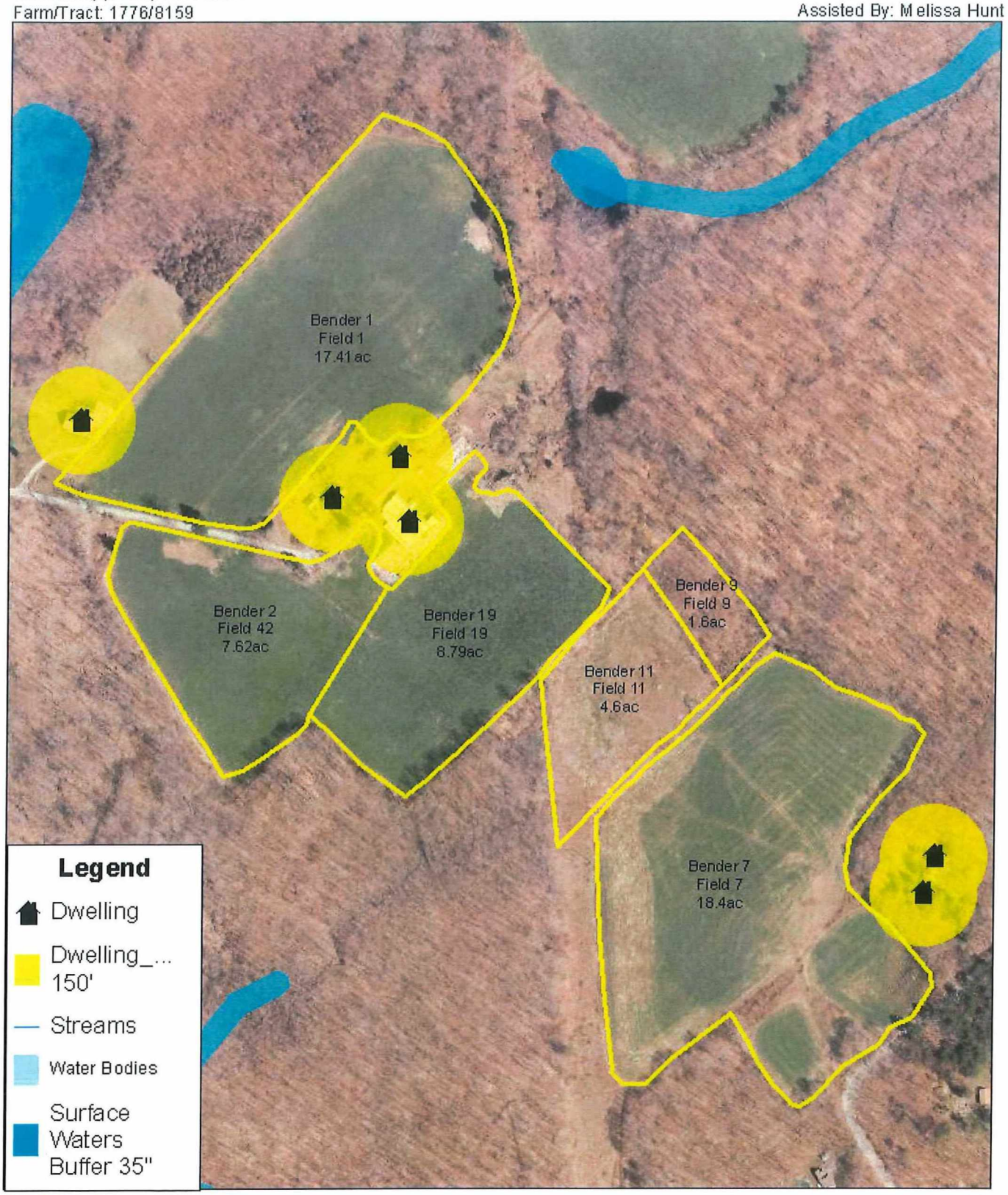
N

Setback Distance Map: Bender

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 1776/8159

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,750

230 0 230 460 690 920 Feet

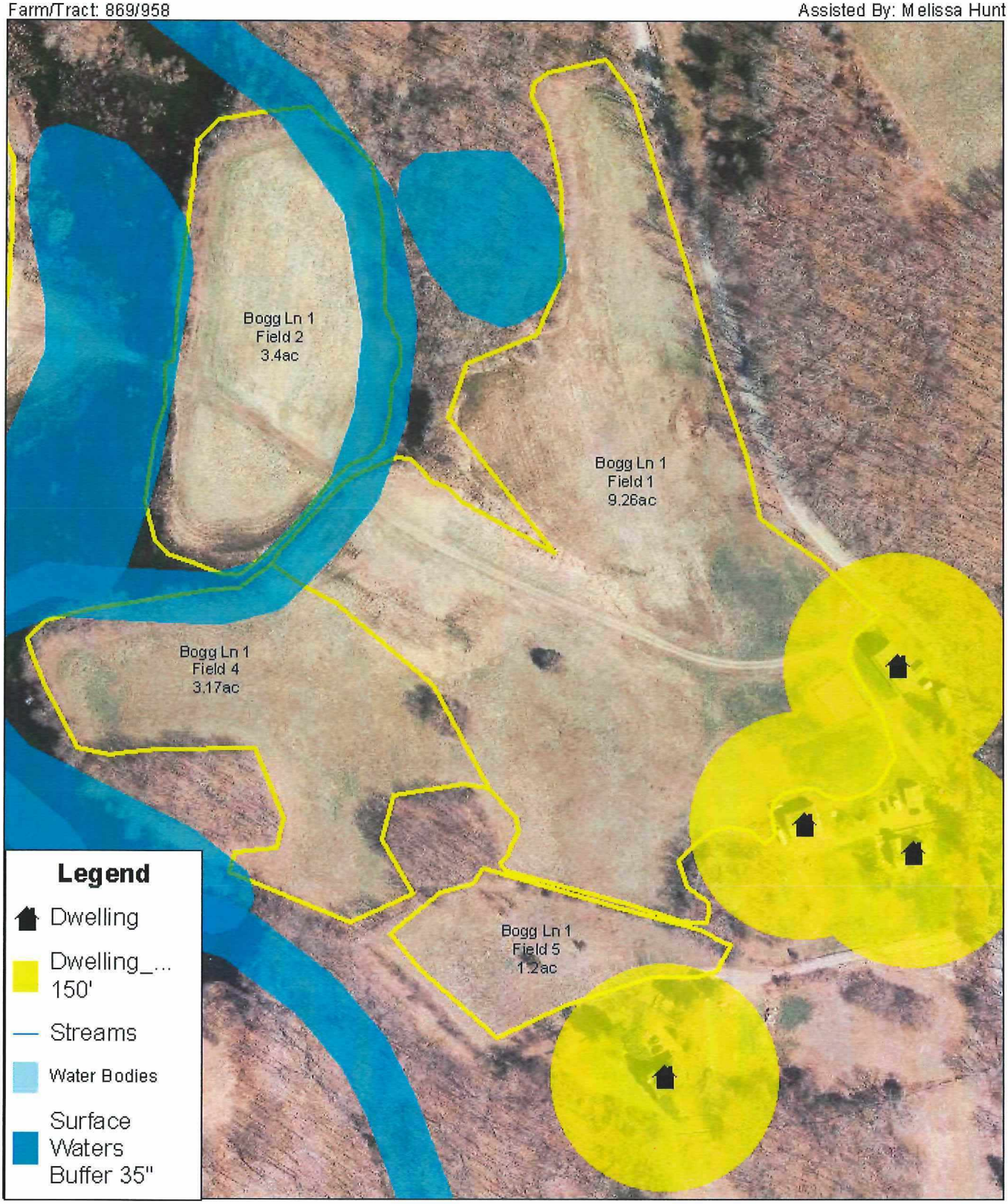
N

Setback Distance Map
Bogg Ln

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,250

100 0 100 200 300 400 Feet

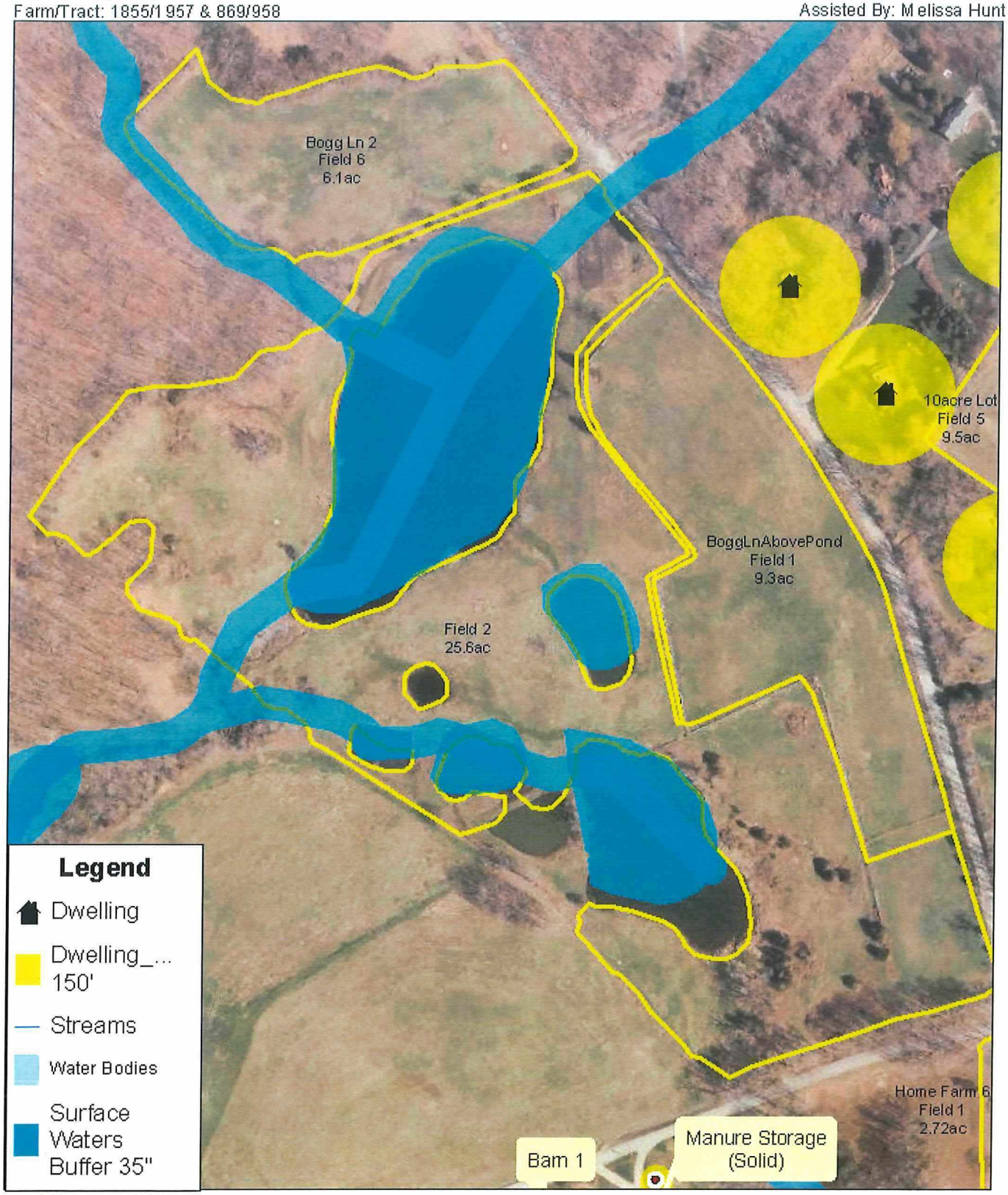
N

Setback Distance Map
Bogg Lane Near Pond

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 1855/1957 & 869/958

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,600

170 0 170 340 510 680 Feet

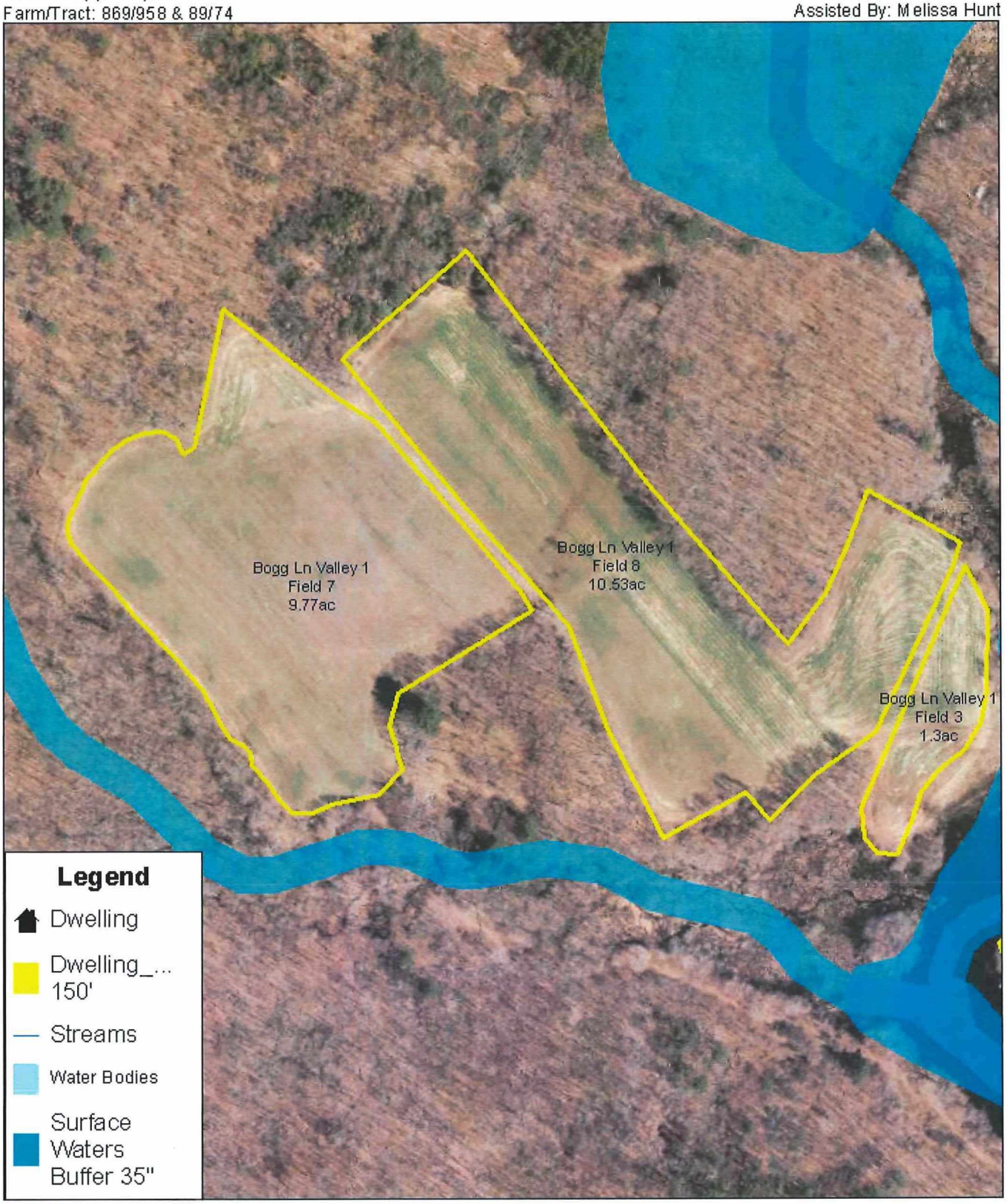
N

Setback Distance Map
Bogg Ln Valley

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 869/958 & 89/74

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,250

150 0 150 300 450 600 Feet

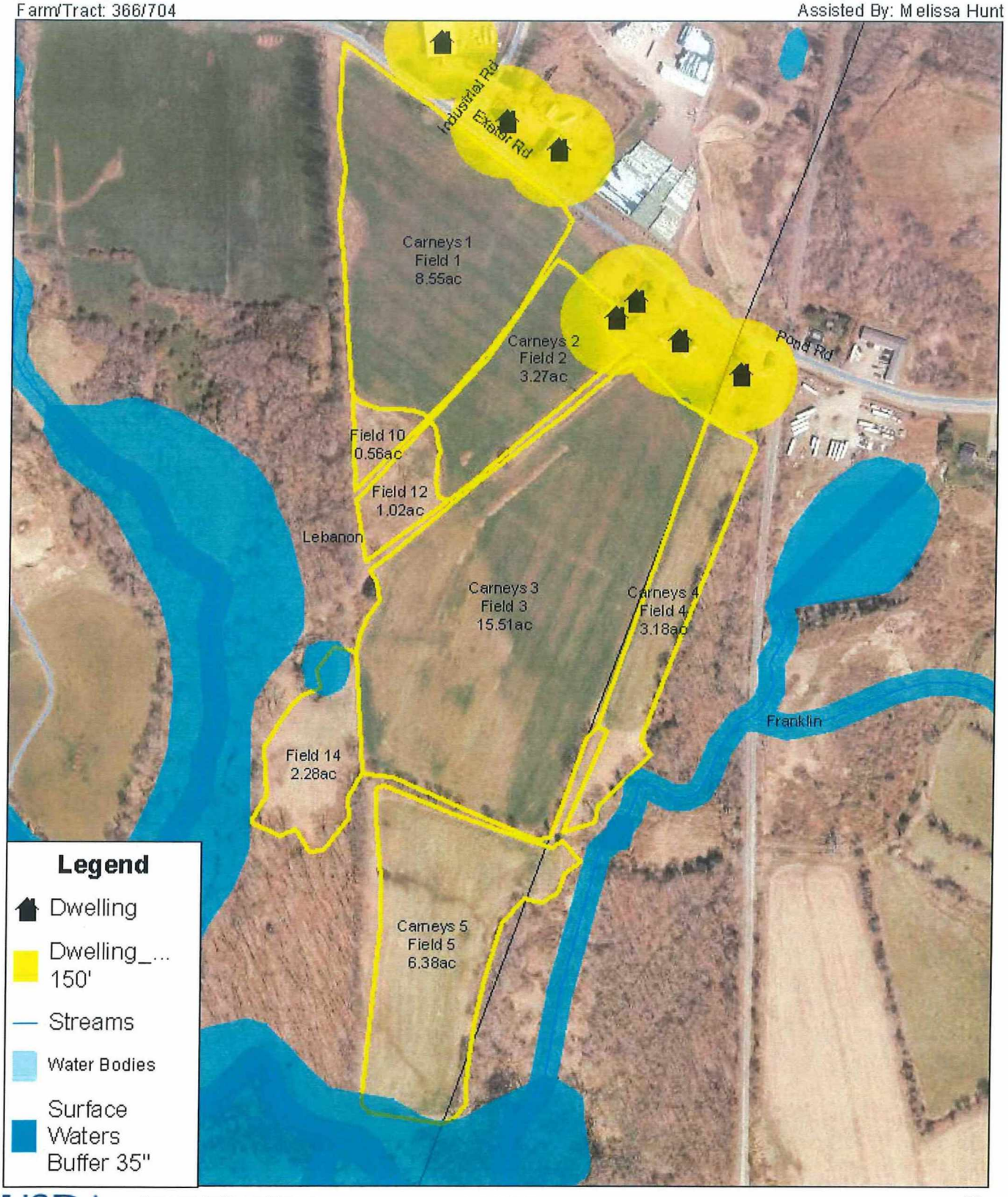
N

Setback Distance Map
Carneys

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 366/704

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840 Feet

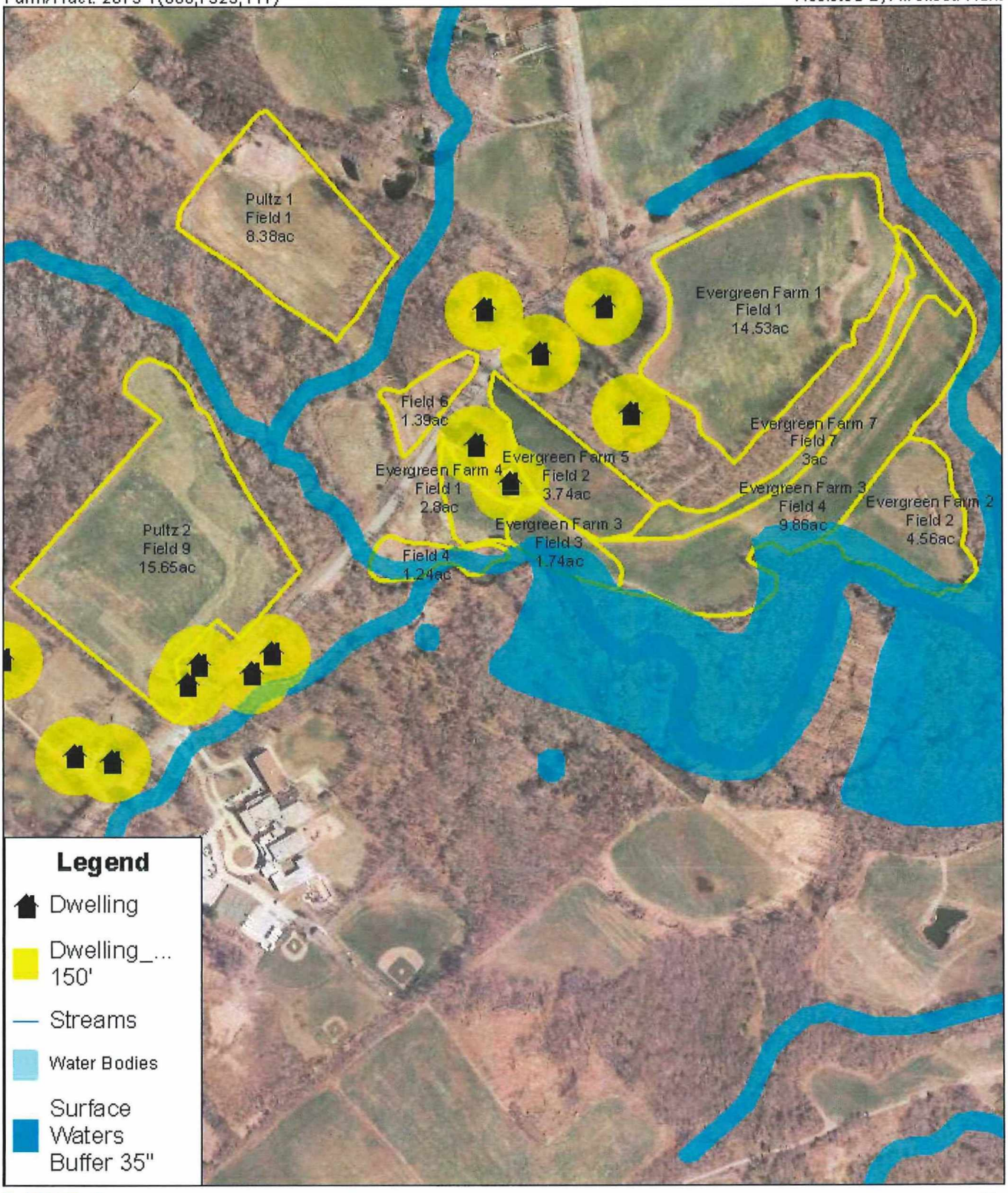
N

Setback Distance Map
Pultz_Evergreen

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 2079 T(688,7523,117)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:6,500

310 0 310 620 930 1,240 Feet

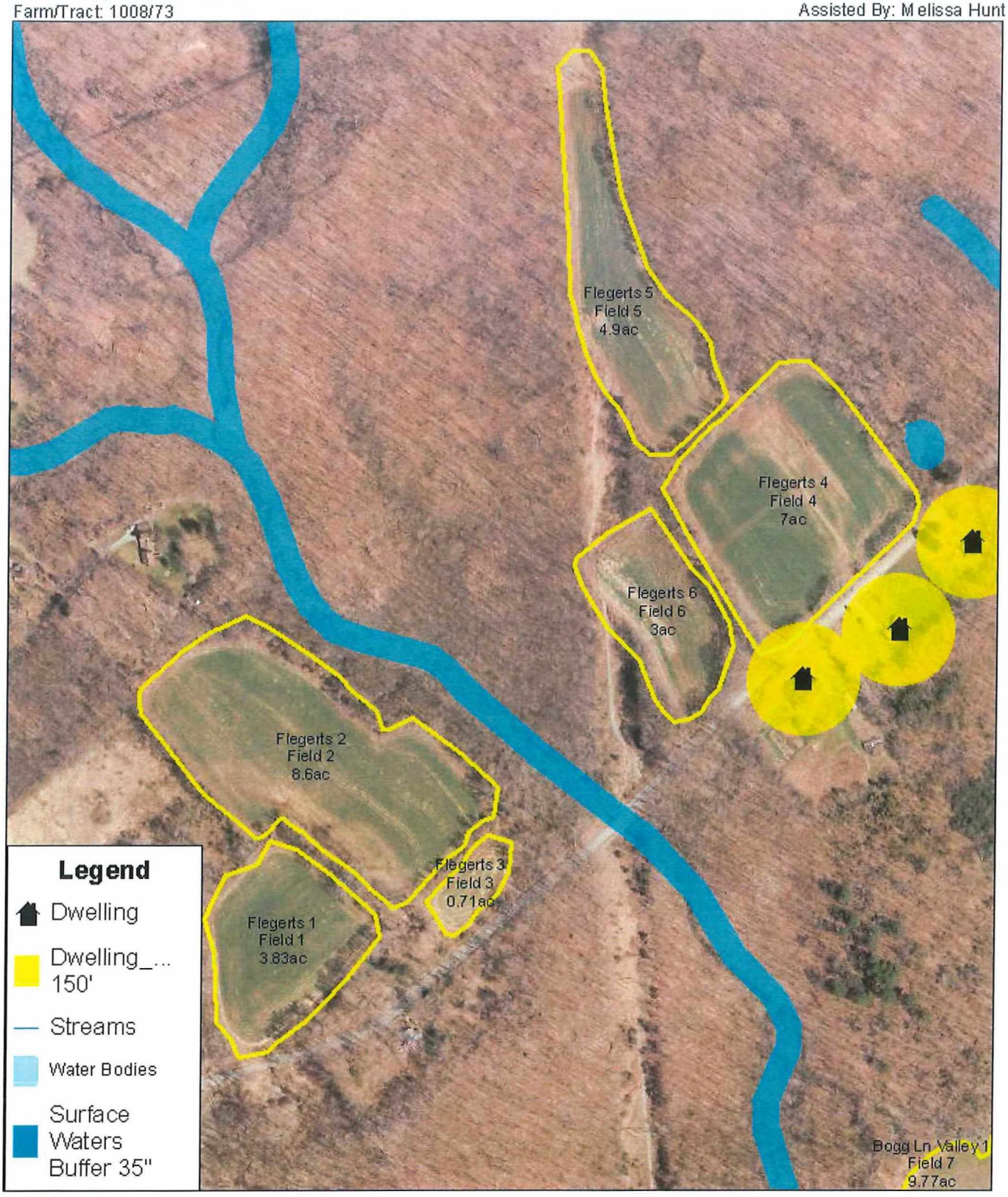
N

Setback Distance Map
Flegerts

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 1008/73

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840 Feet

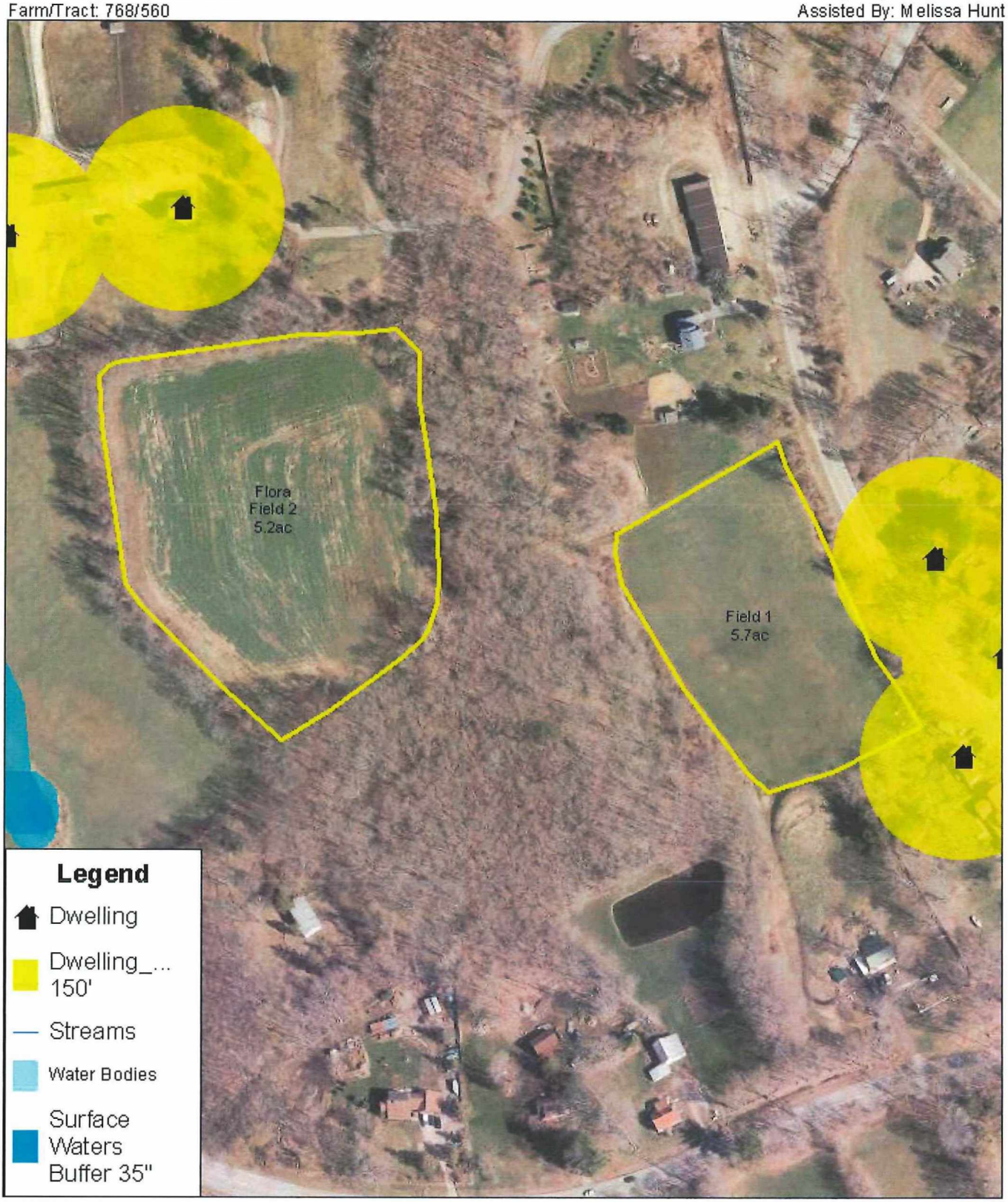
N

Setback Distance Map
Flora

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 768/560

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

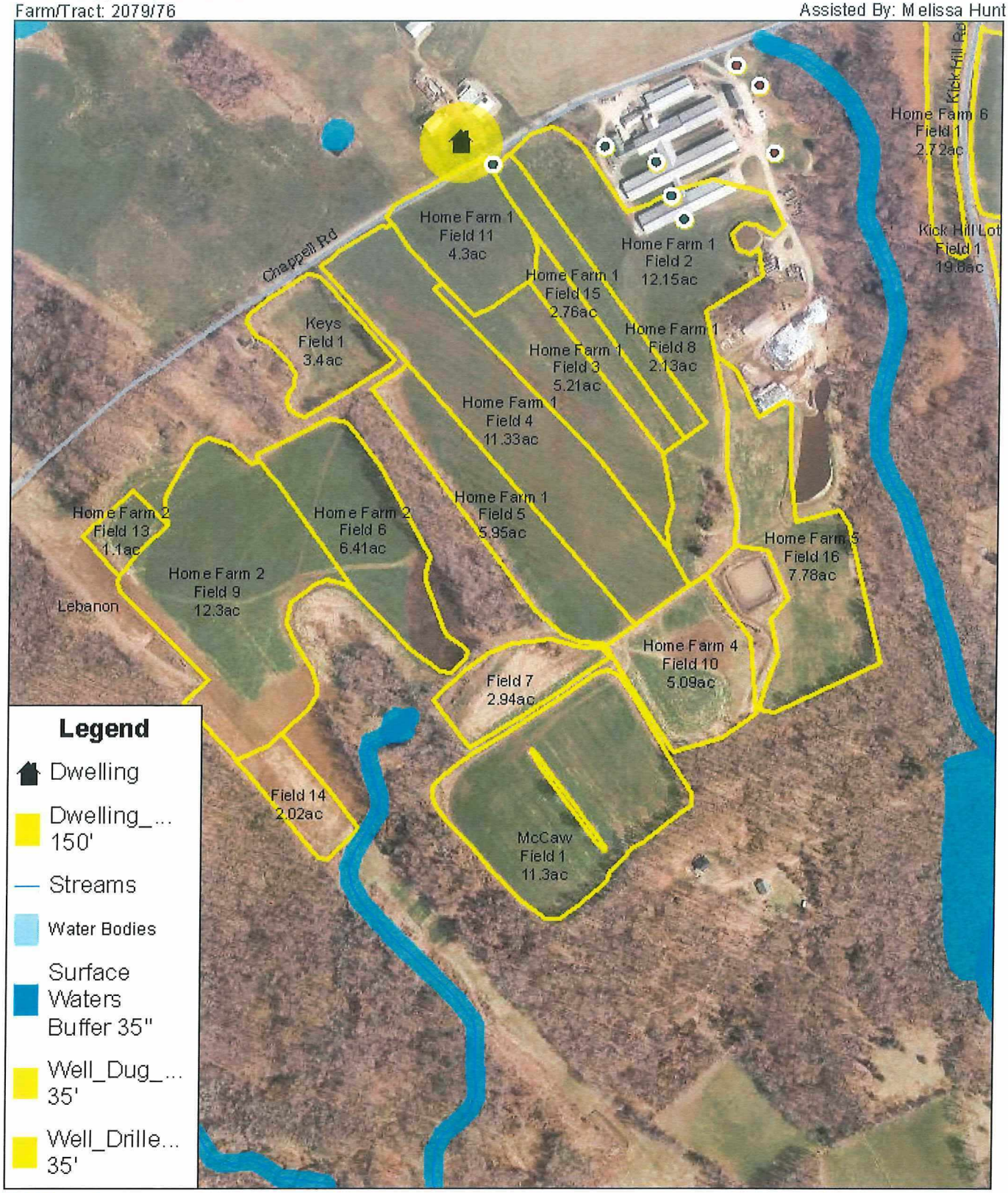
N

Setback Distance Map
Home Farm

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/76

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:6,250

300 0 300 600 900 1,200 Feet

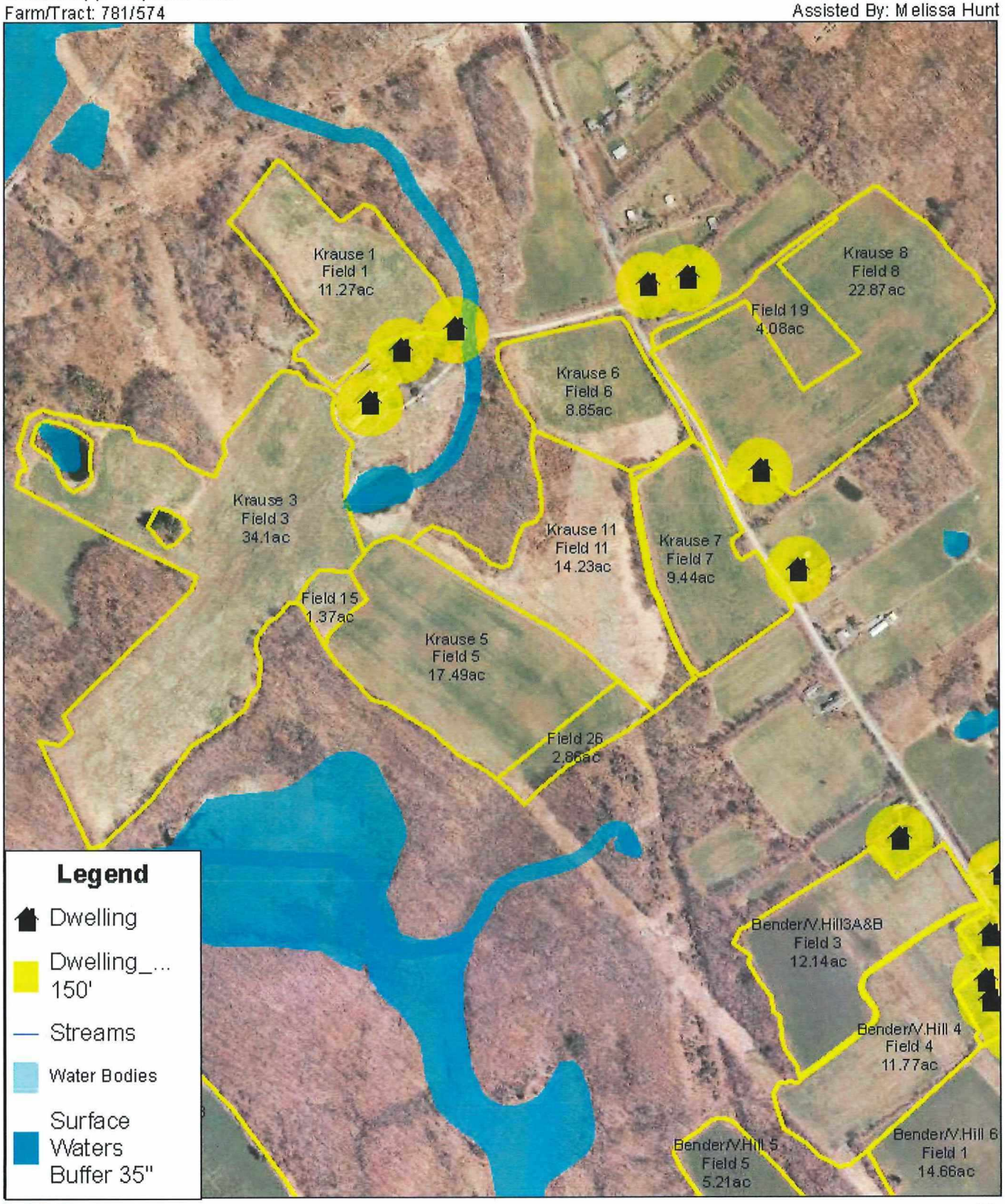
N

Setback Distance Map
Krause

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 781/574

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,750

375 0 375 750 1,125 1,500 Feet

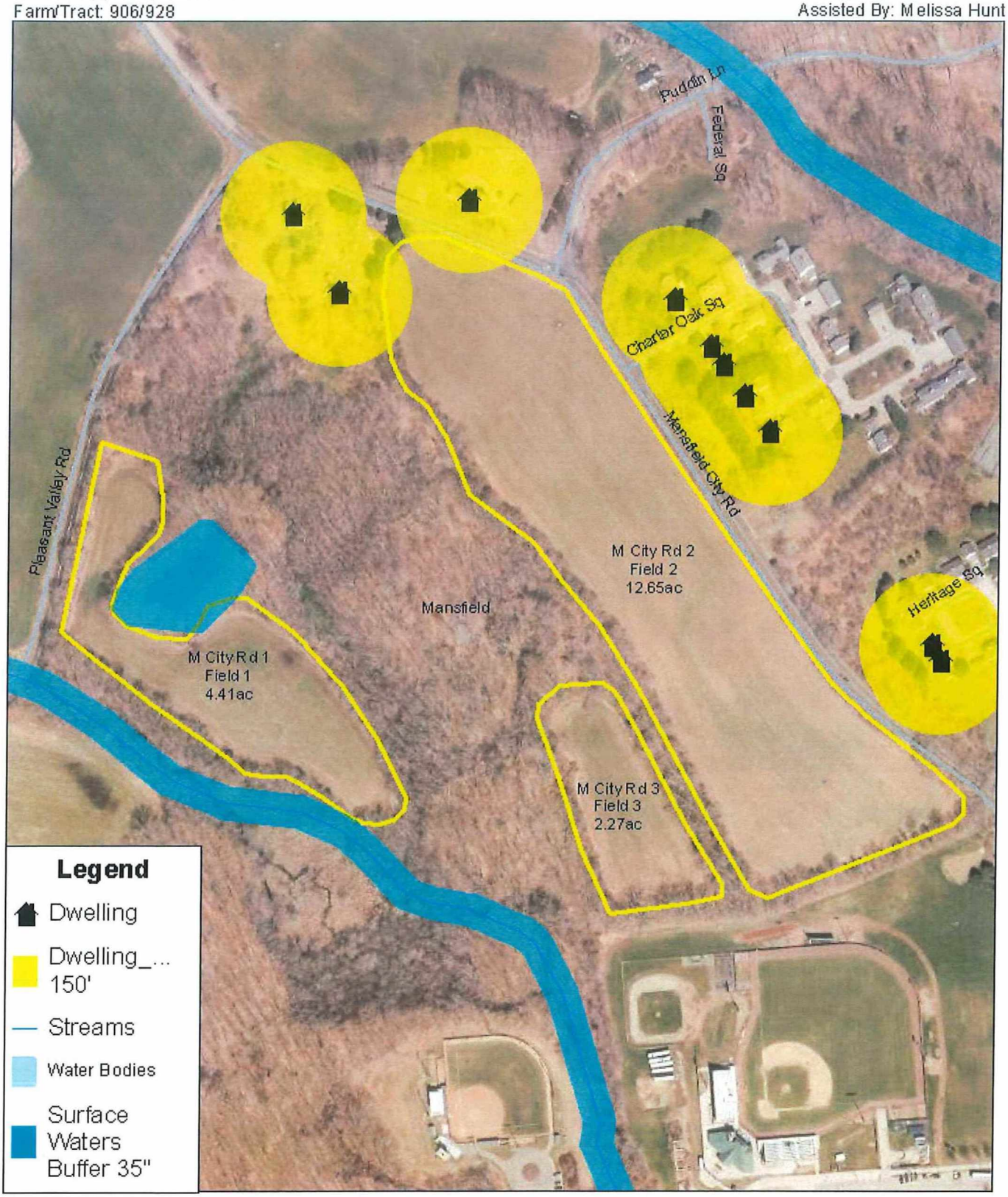
N

Setback Distance Map
M City Rd

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 906/928

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

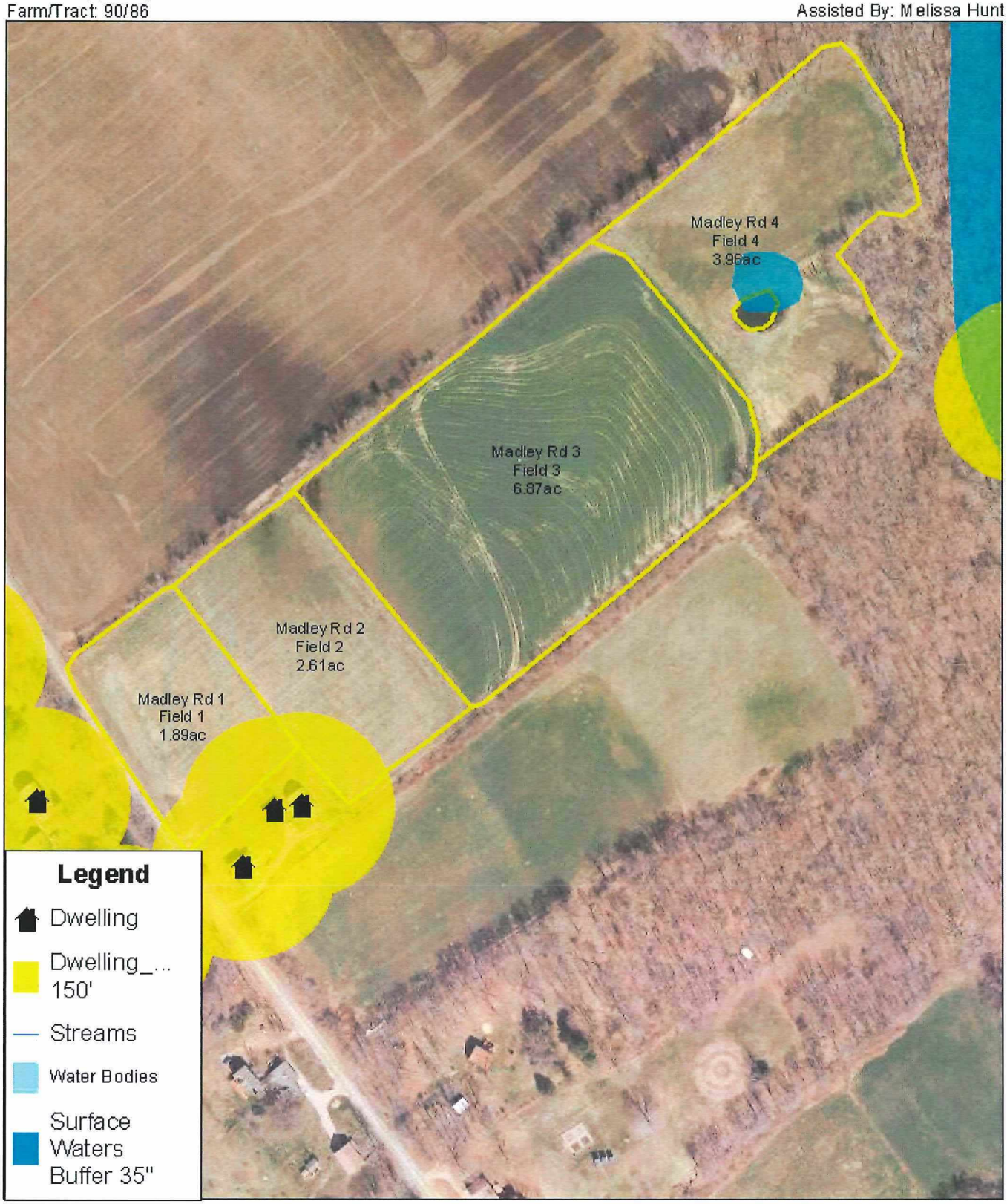
N

Setback Distance Map: Madley Rd

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 90/86

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,750

130 0 130 260 390 520 Feet

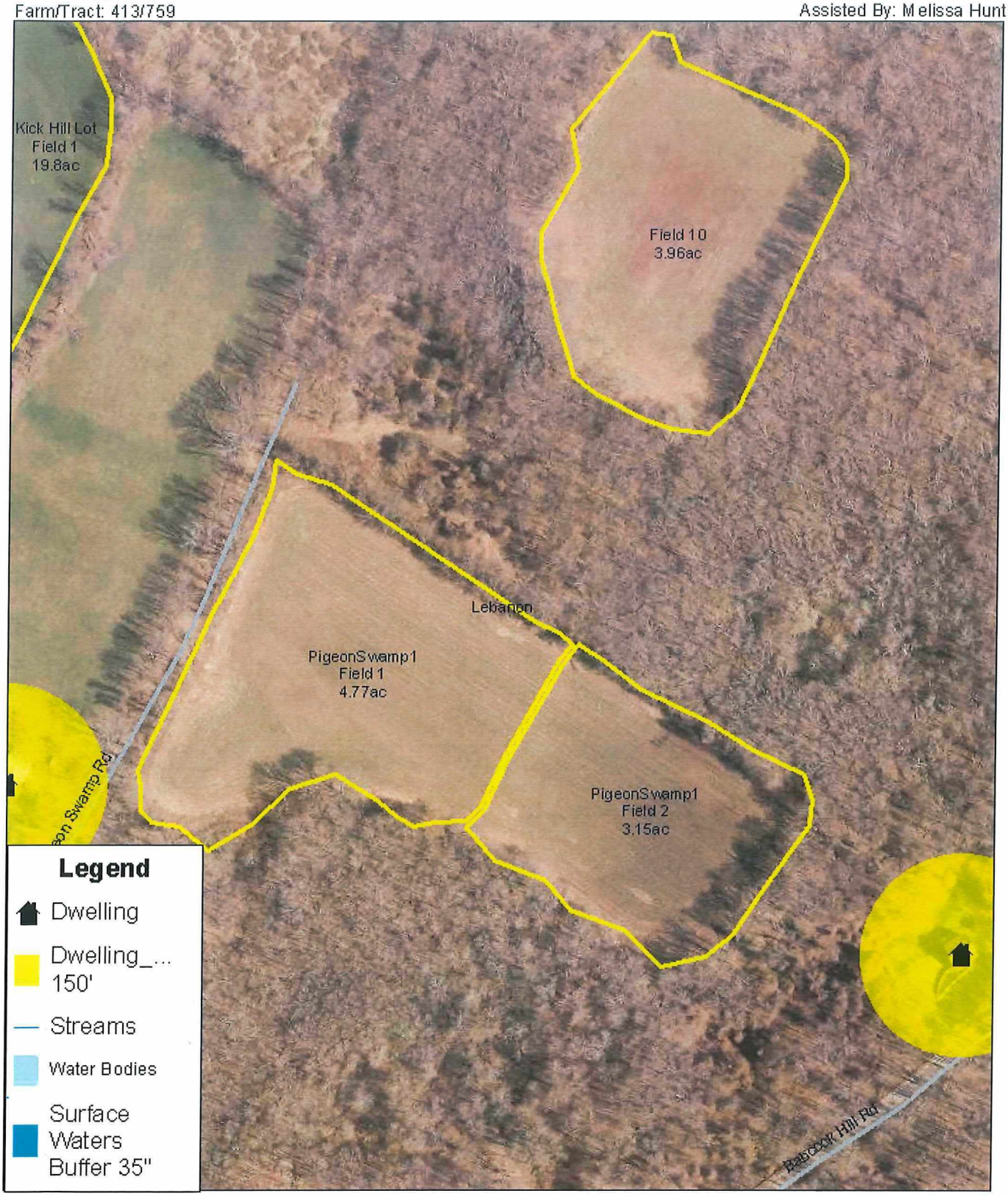
N

Setback Distance Map
Pigeon Swamp

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 413/759

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,500

120 0 120 240 360 480 Feet

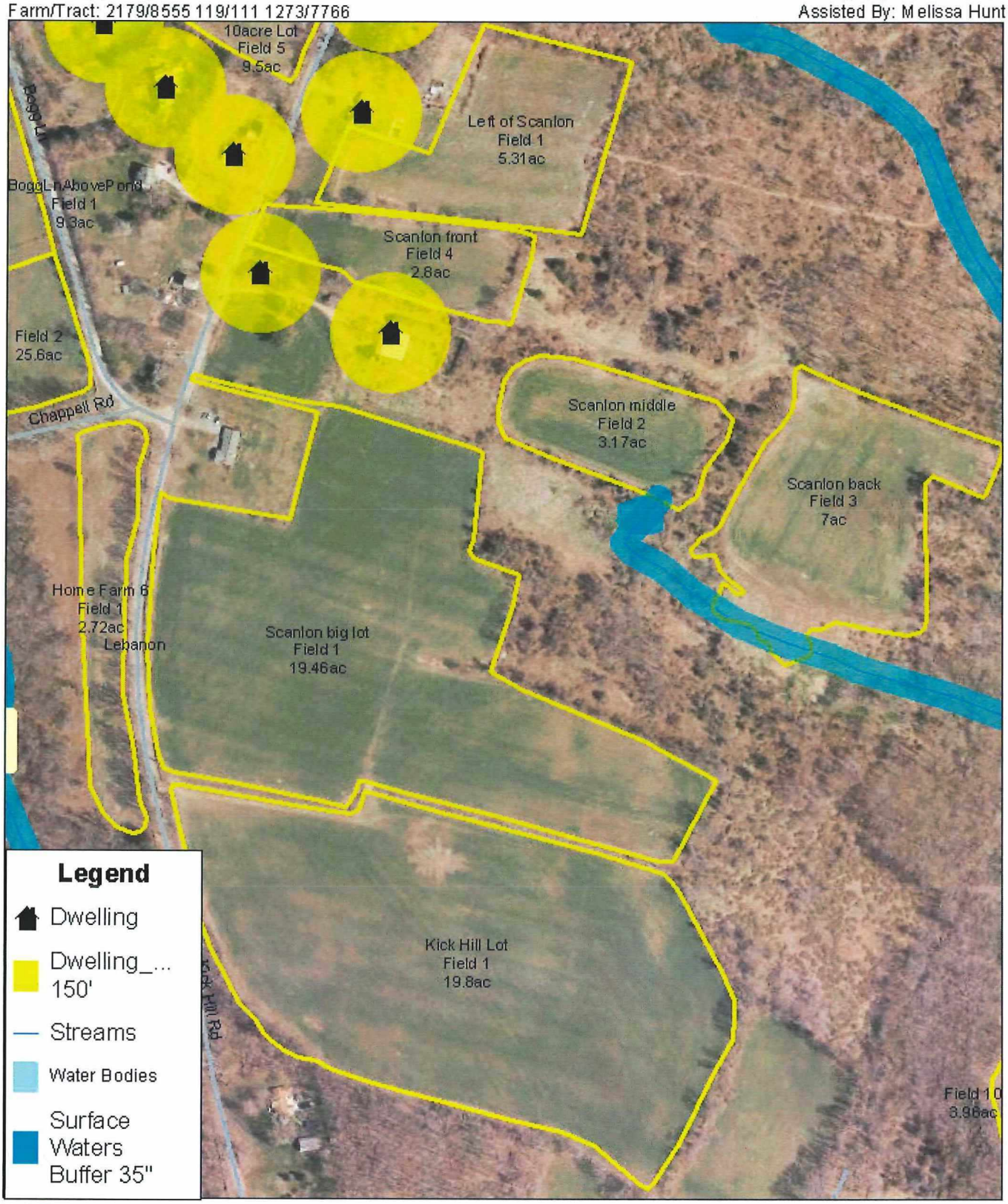
N

Setback Distance Map
Scanlon_Kick Hill

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 2179/8555 119/111 1273/7766

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,250

200 0 200 400 600 800 Feet

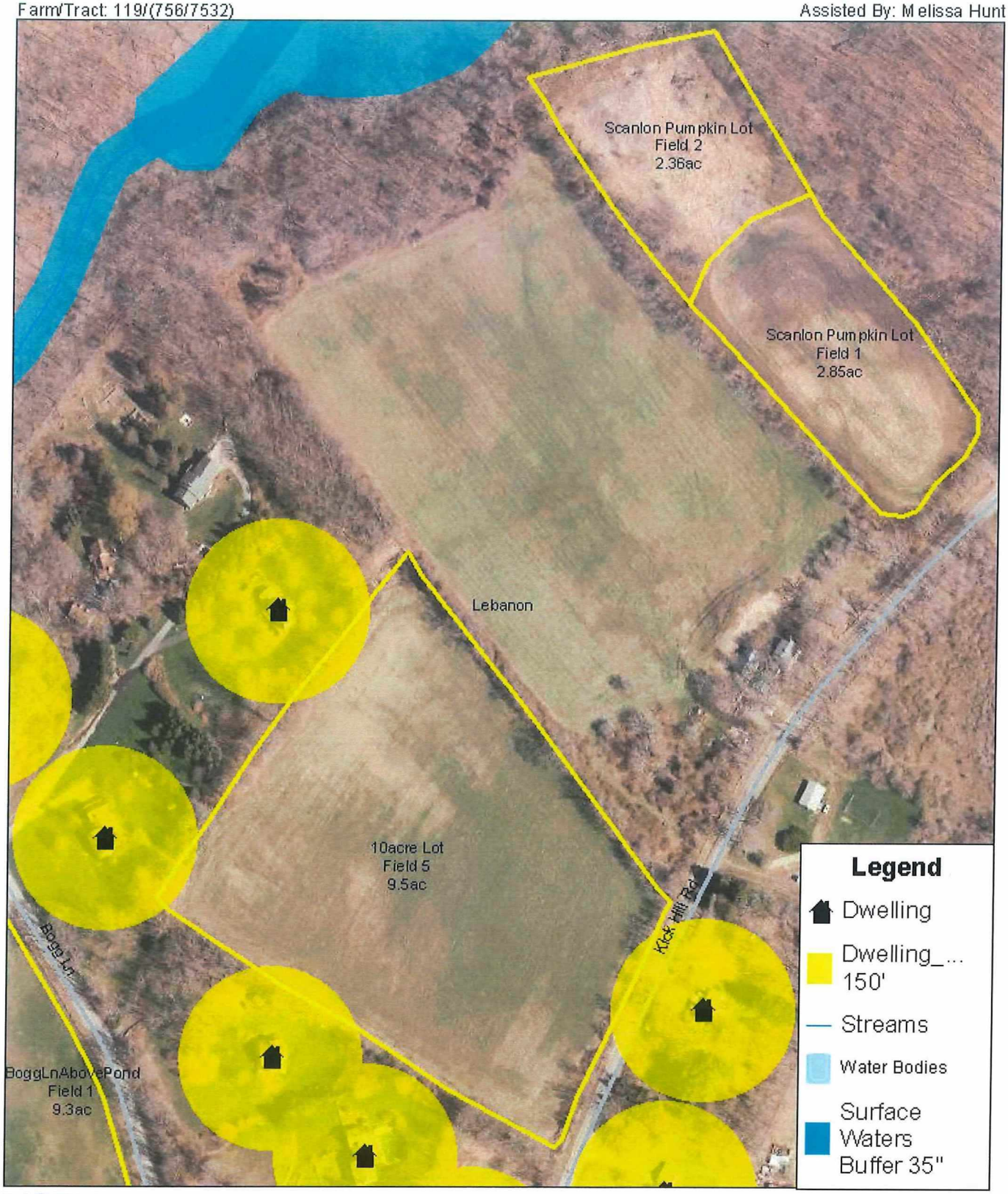
N

Setback Distance Map
Scanlon Pumpkin

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 119/(756/7532)

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,750

130 0 130 260 390 520 Feet

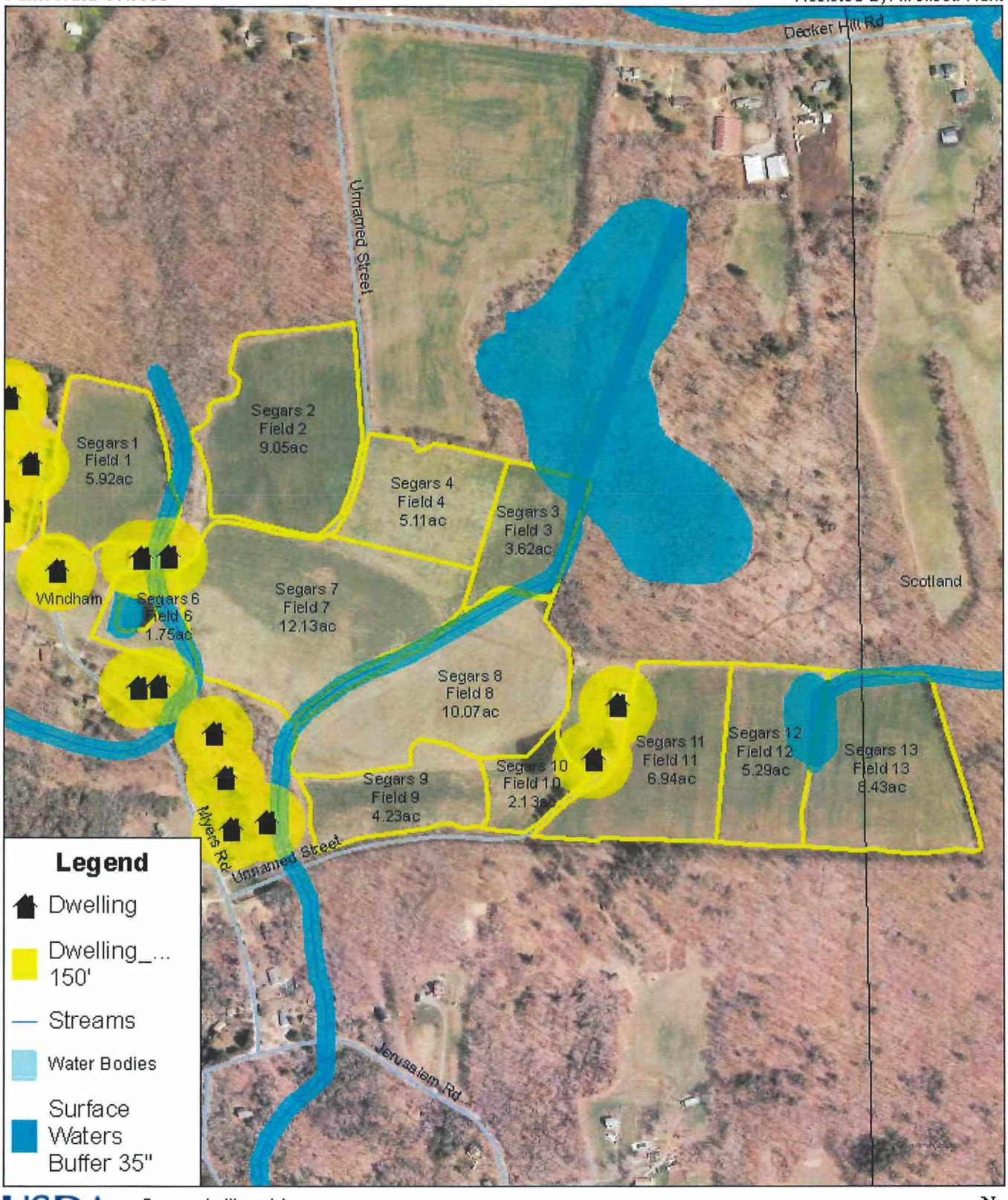
N

Setback Distance Map: Segars

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 441/135

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:6,500

310 0 310 620 930 1,240 Feet

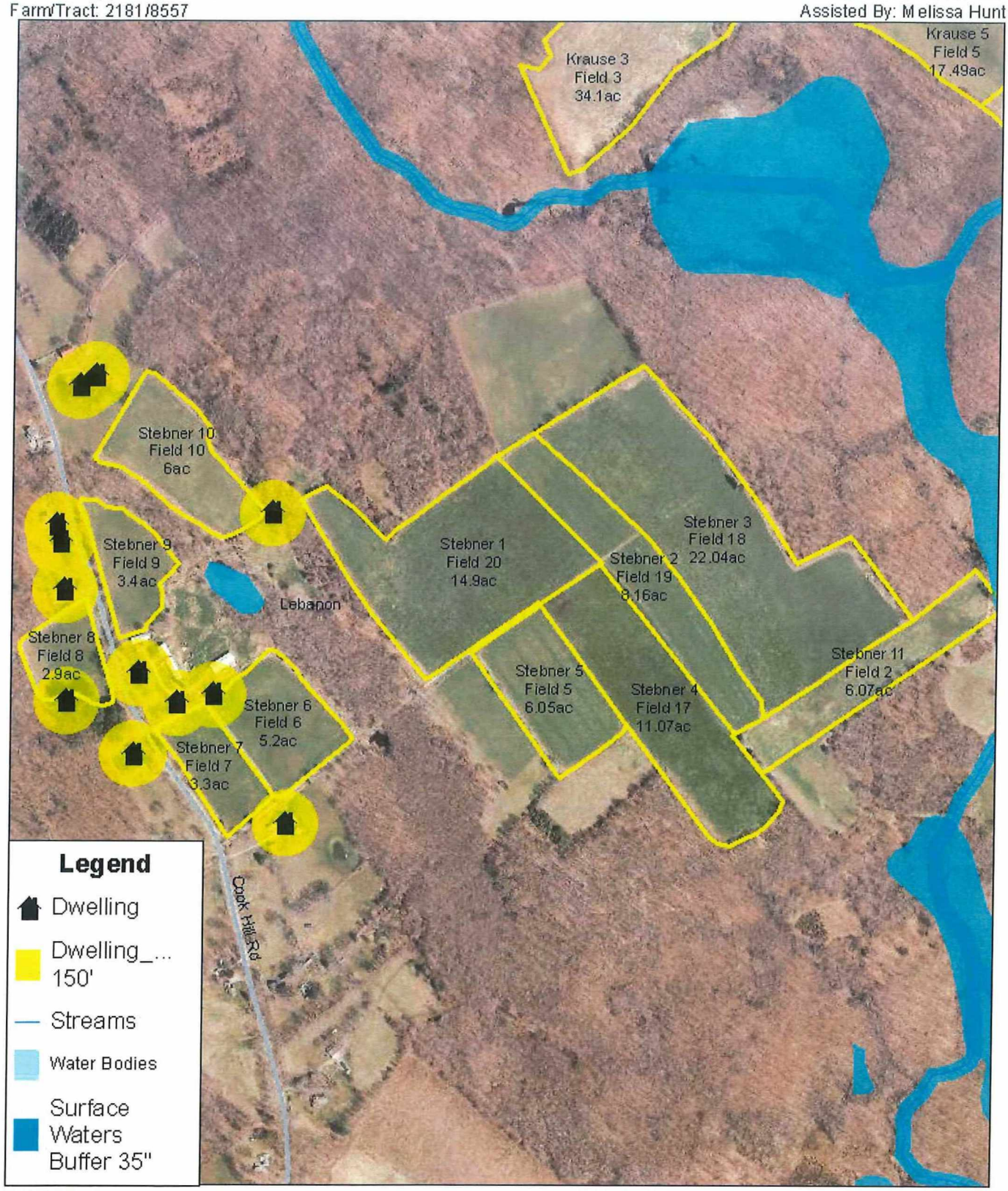
N

Setback Distance Map
Stebner

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 2181/8557

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:7,600

360 0 360 720 1,080 1,440 Feet

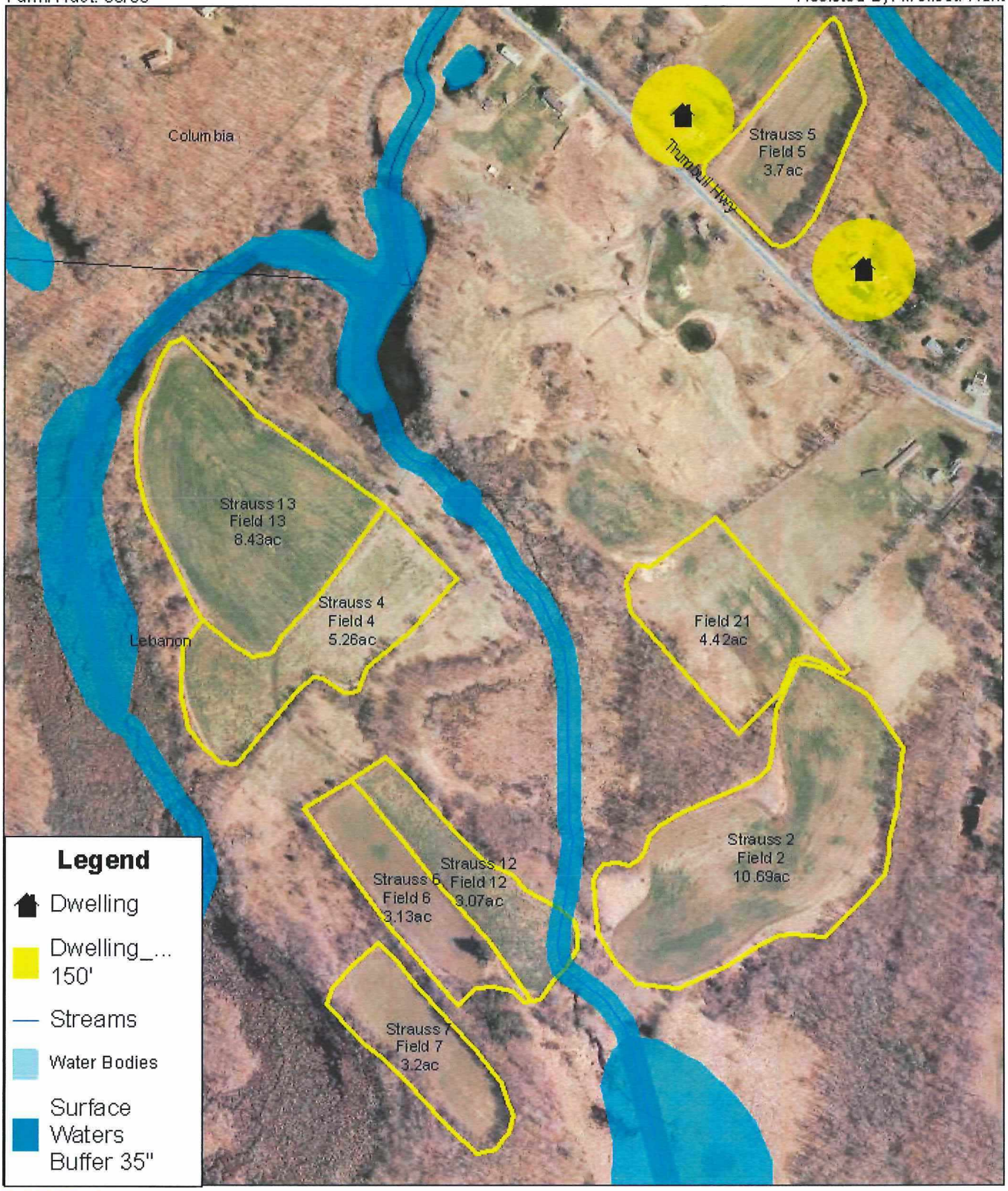
N

Setback Distance Map
Strauss

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 50/33

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:5,000

240 0 240 480 720 960 Feet

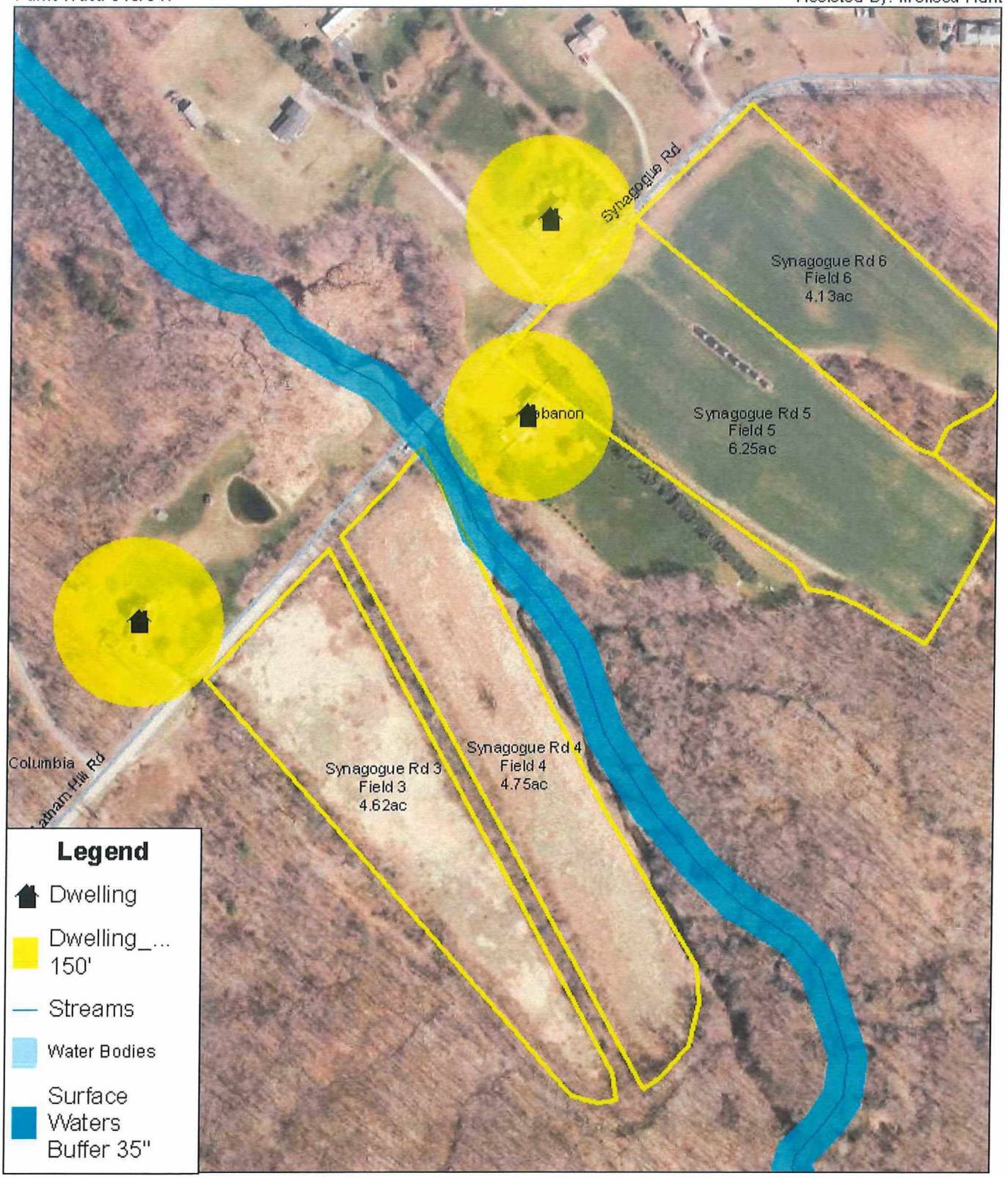
N

Setback Distance Map
Synagogue Rd

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 349/847

Agency: USDA NRCS
Assisted By: Melissa Hunt



Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,000

140 0 140 280 420 560 Feet

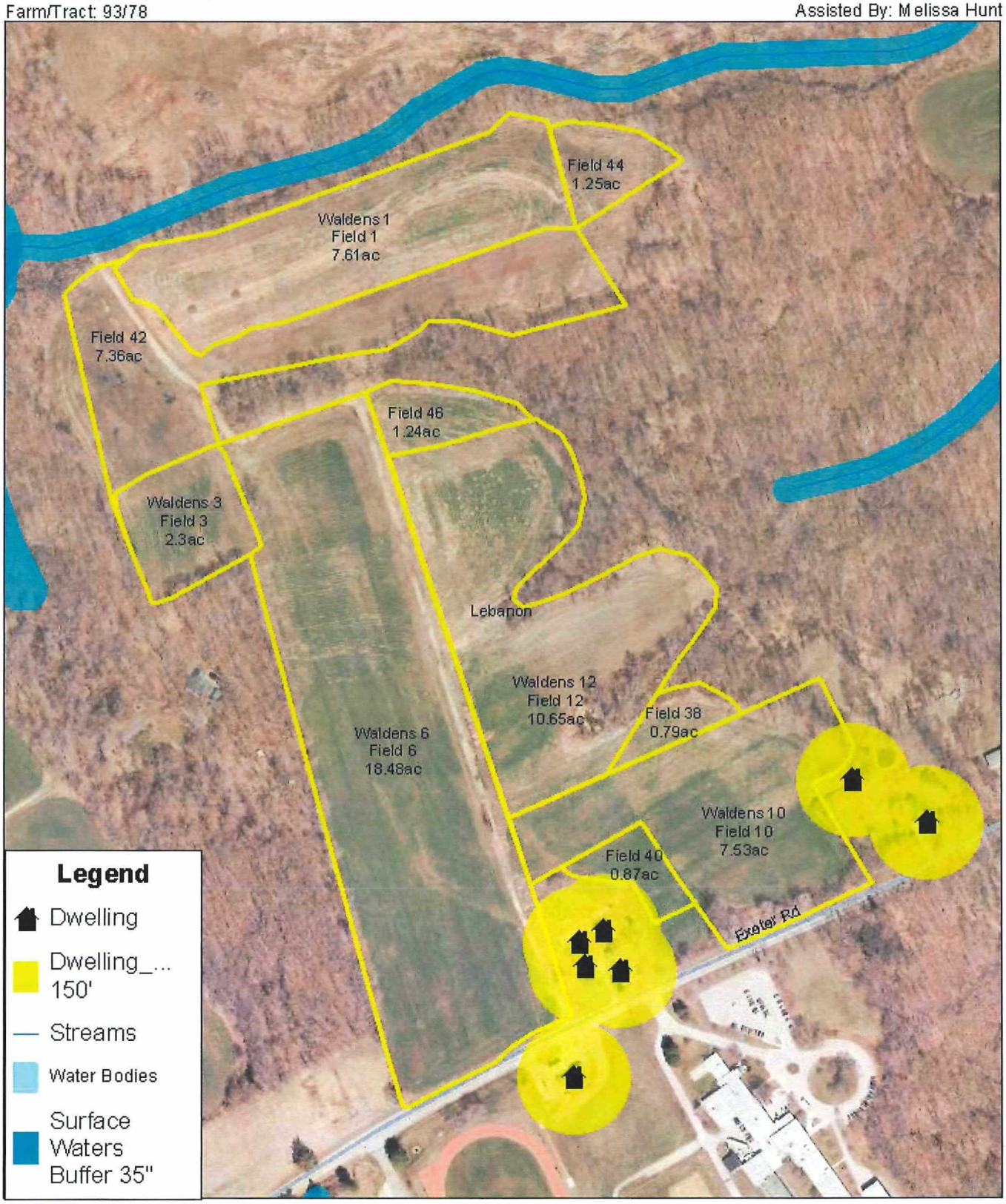
N

Setback Distance Map
Waldens

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 93/78

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,500

210 0 210 420 630 840 Feet

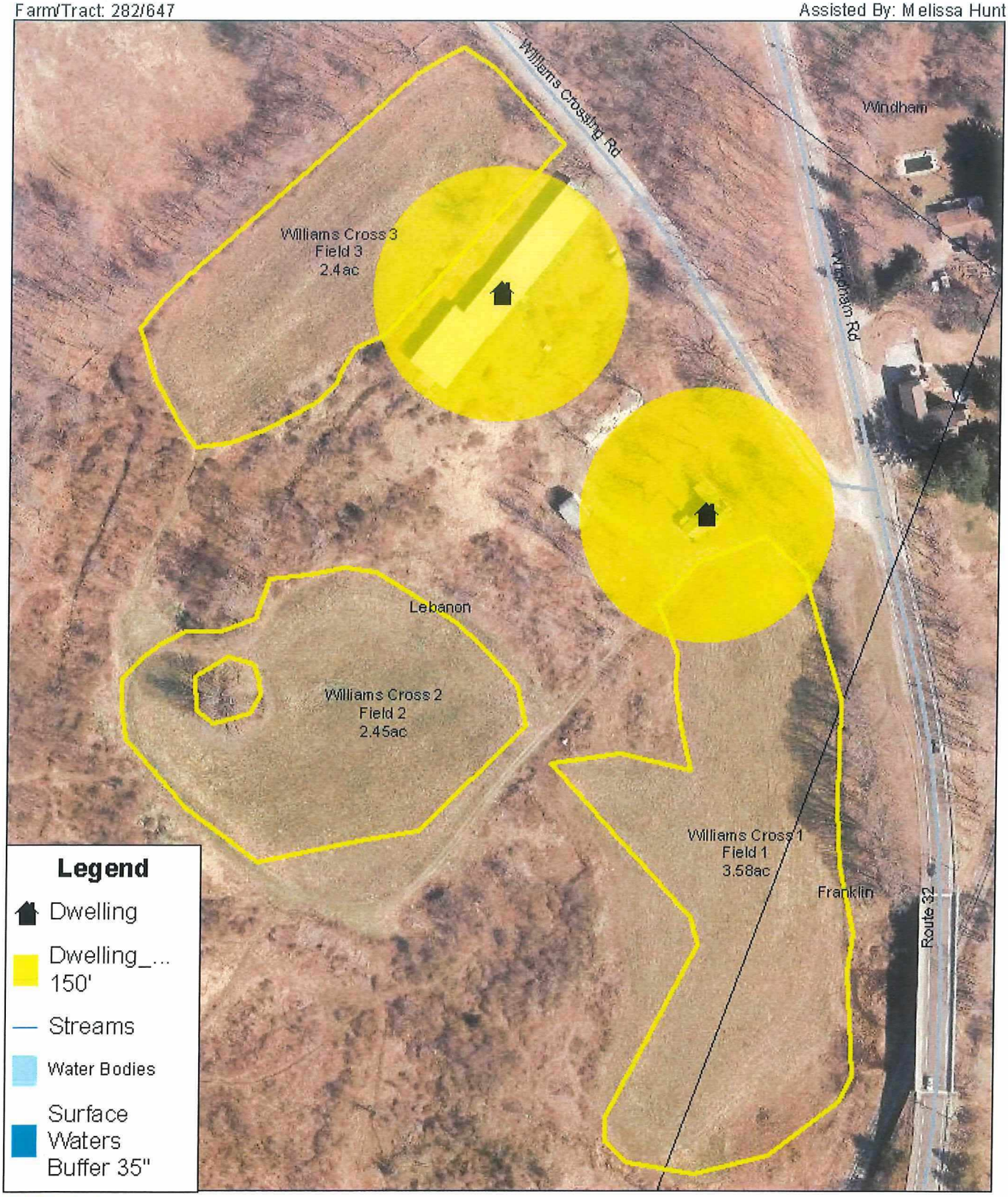
N

Setback Distance Map
Williams Cross

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 282/647

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:2,000

90 0 90 180 270 360 Feet

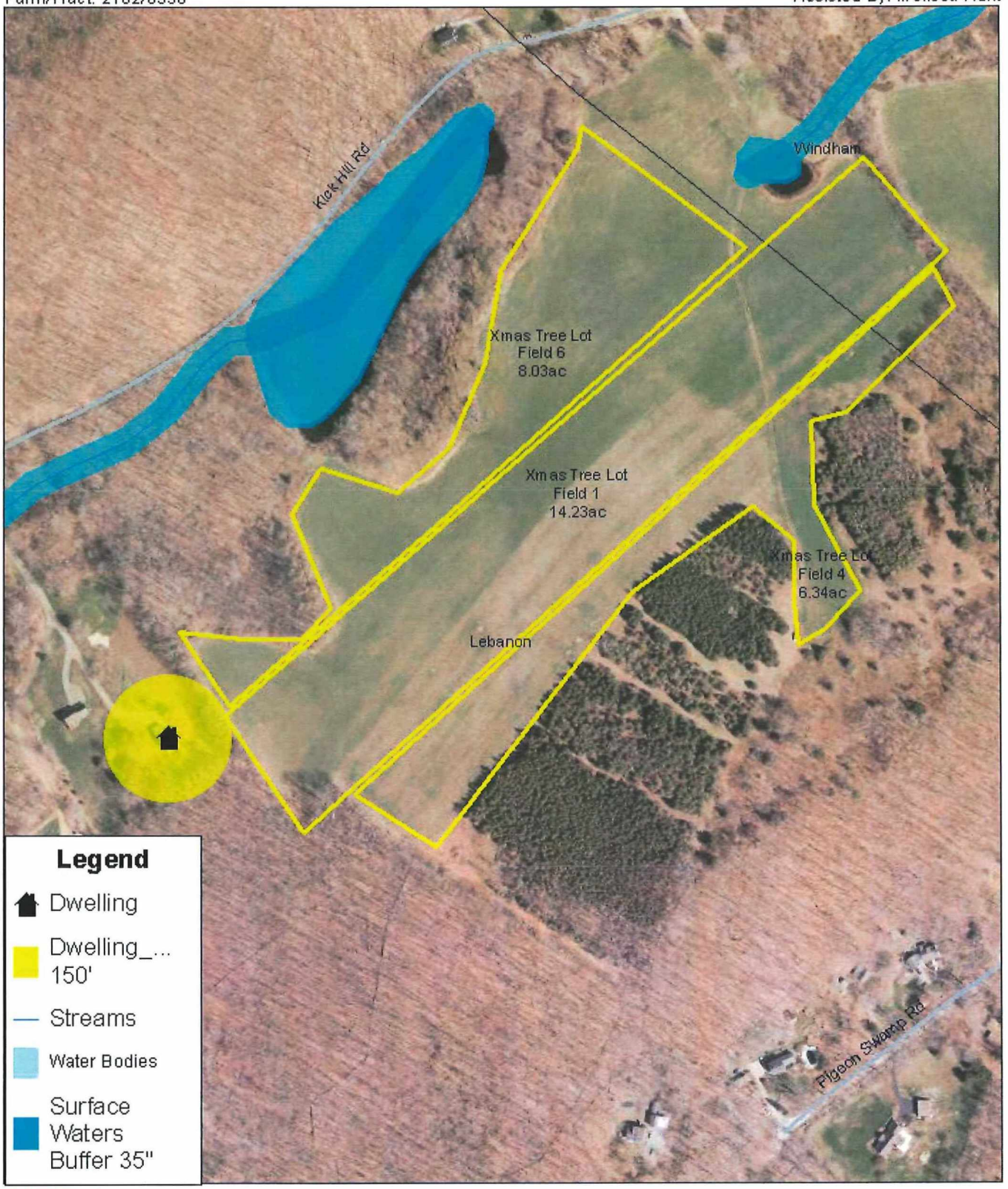
N

Setback Distance Map
Xmas Tree Lot

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 2182/8558

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:4,000

190 0 190 380 570 760 Feet

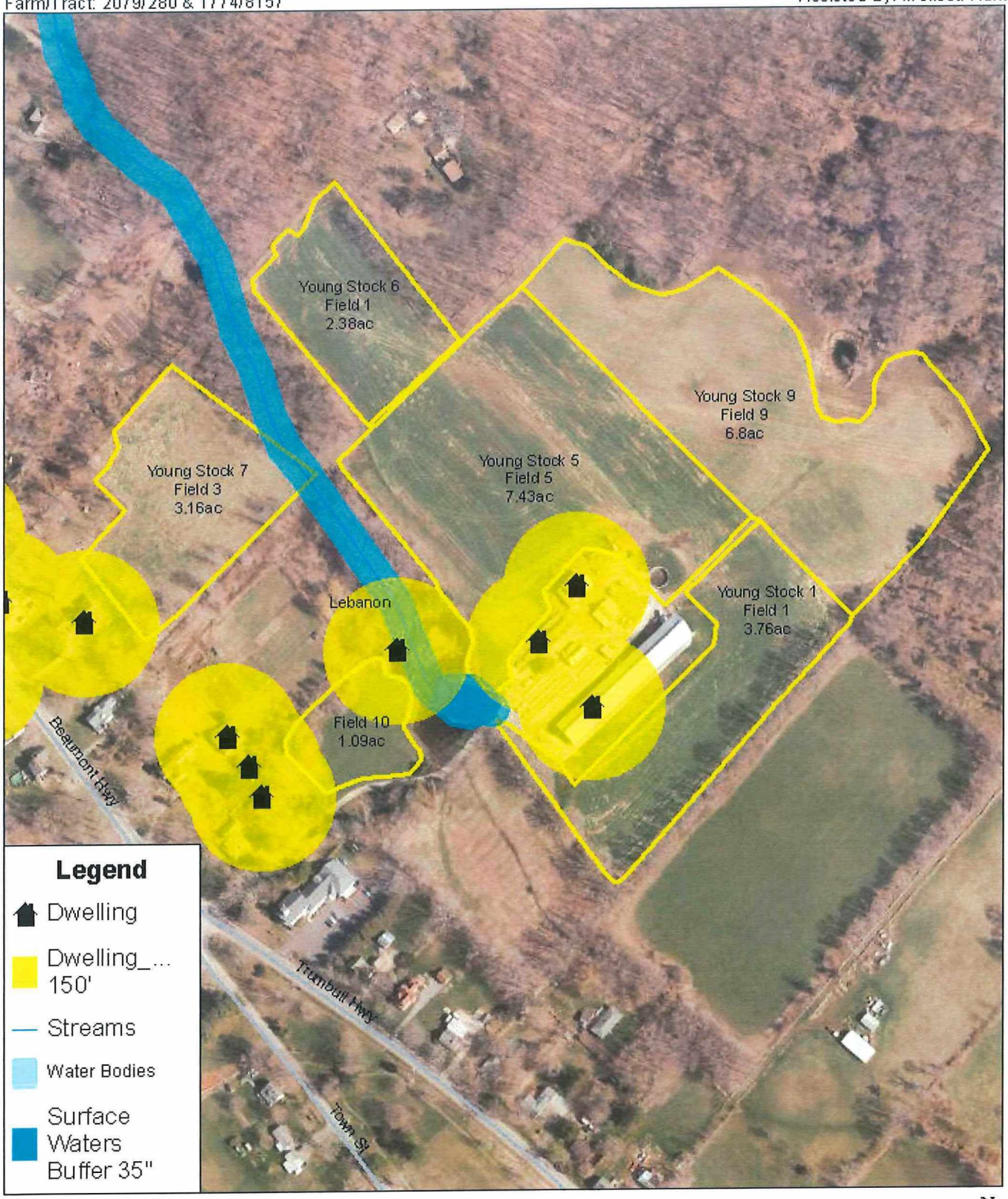
N

Setback Distance Map
Young Stock

Date: 07/01/2019

Customer(s): Graywall Farms
Farm/Tract: 2079/280 & 1774/8157

Agency: USDA NRCS
Assisted By: Melissa Hunt



USDA

Prepared with assistance from the USDA Natural Resources Conservation Service

1:3,500

160 0 160 320 480 640 Feet

N

Appendix F

Photographs of Farm and Resource Concerns

Appendix G

Animal Waste Management Plan Report

Animal Waste Management Plan Report
prepared for Graywall Farm

Designed By: Melissa Sutyla
Date: 12/29/2020
Checked By: _____
Date: _____

Farm Information

# of Operating Periods: 1 **State:** CT **Data Source:** NRCS-2008

Operating Period: January - December

Climate Data

County: New London
Station: GROTON CT3207
25 Yr - 24 Hr Storm Event: 6.16 inches

Lagoon Loadings:

Rational Design Method:

Barth KVAL: 0

Load Rate for Odor, OCV: 0 lbs VS/cu. ft/day

LRV Max: 0.00625 lbs VS/cu. ft/day

NRCS Design Method:

Anaerobic Load Rate: 0 lbs VS/1000 cu. ft/day

Month	Prec. (in)	Evap. (in)
January	3.78	0.78
February	3.51	1.13
March	5.07	2.04
April	4.54	2.99
May	3.65	4.09
June	4.08	4.77
July	3.63	5.10
August	4.29	4.52
September	4.16	3.20
October	4.15	2.11
November	4.54	1.12
December	4.28	0.73
Total	49.68	32.58

Animal Data

Animal	Type	Quantity	Weight	Manure	VS	TS	Manure	Manure	VS	TS
			lbs	cu.ft/day/AU	lbs/day/AU	lbs/day/AU	cu.ft/day	lbs/day	lbs/day	lbs/day
Calf 0-2m	Dairy	100	150	1.30	7.70	9.20	19.50	1170.0	115.50	138.00
Cows (Calf pac	Dairy	10	1600	1.70	11.00	14.00	27.20	1632.0	176.00	224.00
Heifer 10-20m	Dairy	300	800	0.90	7.30	8.50	216.00	12960.0	1752.00	2040.00
Heifer 2-4m BP	Dairy	80	225	1.30	7.70	9.20	23.40	1404.0	138.60	165.60
Heifer 4-10m	Dairy	340	360	0.90	7.30	8.50	110.16	6609.6	893.52	1040.40
Milkers	Dairy	850	1500	1.70	11.00	14.00	2167.50	130050.0	14025.00	17850.00
Pre-fresh Cows	Dairy	120	1600	1.70	11.00	14.00	326.40	19584.0	2112.00	2688.00
Totals		1800	N/A	N/A	N/A	N/A	2890.16	173409.6	19212.62	24146.00

Location Data

Percent of Manure Deposited in Each Location:

Period 1

Heifer-Slurry	Animal Name	Percent Manure
	Pre-fresh Cows	0
	Calf 0-2m	0
	Heifer 10-20m	100
	Milkers	0
	Heifer 4-10m	100
	Heifer 2-4m BP	30
	Cows (Calf pack)	0
Heifer-Solid	**Animal Name**	**Percent Manure**
	Calf 0-2m	100
	Pre-fresh Cows	0
	Cows (Calf pack)	0
	Heifer 2-4m BP	70
	Heifer 4-10m	0
	Milkers	0
	Heifer 10-20m	0
Milker-Slurry	**Animal Name**	**Percent Manure**
	Heifer 10-20m	0
	Cows (Calf pack)	0
	Heifer 2-4m BP	0
	Heifer 4-10m	0
	Pre-fresh Cows	0
	Milkers	90
	Calf 0-2m	0
Milker-Solid	**Animal Name**	**Percent Manure**

	Pre-fresh Cows	100
	Calf 0-2m	0
	Heifer 10-20m	0
	Milkers	10
	Heifer 4-10m	0
	Heifer 2-4m BP	0
	Cows (Calf pack)	100
Silage Leachate Pond	**Animal Name**	**Percent Manure**
	Heifer 2-4m BP	0
	Heifer 4-10m	0
	Milkers	0
	Pre-fresh Cows	0
	Heifer 10-20m	0
	Calf 0-2m	0
	Cows (Calf pack)	0
Totals	**Animal Name**	**Percent Manure**
	Heifer 10-20m	100
	Cows (Calf pack)	100
	Heifer 2-4m BP	100
	Milkers	100
	Calf 0-2m	100
	Pre-fresh Cows	100
	Heifer 4-10m	100

Additions Data

Waste Water VS Loading: 12.9

Operating Period: 1

Location	Wash Water	Flush Water	Bedding	Amount
	gal/day	gal/day		lbs/day
Silage Leachate Po	0.00	349.00		0.00
Heifer-Solid	0.00	0.00	Sawdust - Shavings	1600.00
Heifer-Slurry	0.00	0.00	Composted Manure	12800.00
Milker-Solid	0.00	0.00	Composted Manure	4100.00
Milker-Slurry	4000.00	0.00	Composted Manure	15300.00

Runoff Data

Runoff Volume Method: Calculate Monthly Runoff Volumes with AWM

Pervious Watershed Area: 0 acres

Pervious Curve Number Storm: 90

Pervious Curve Number Monthly: 90 (1 day), 77 (30 day)

Impervious Area: 80500 sq. ft

25 Year Pervious: 0.00 cu. ft

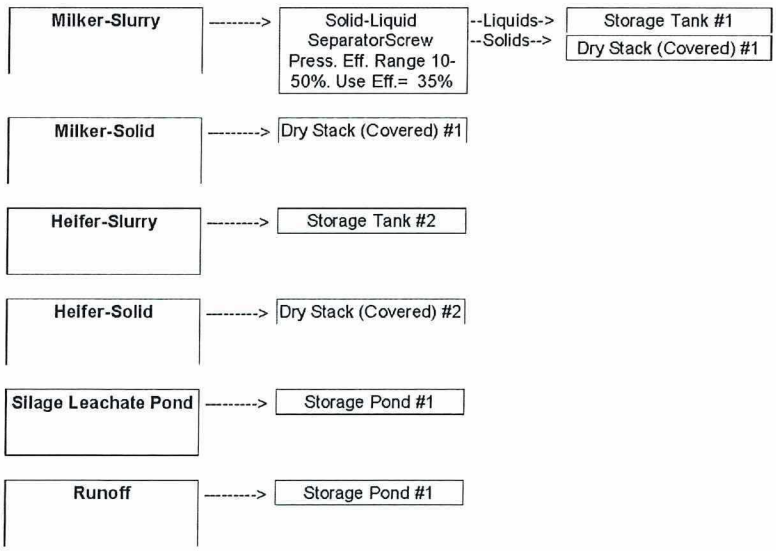
25 Year Impervious: 39720.00 cu. ft

25 Year Total: 39720.00 cu. ft

Runoff Volumes (1000 cu. ft.)

Month	Pervious	Impervious	Month Total
January	0.00	21.63	21.63
February	0.00	19.85	19.85
March	0.00	30.18	30.18
April	0.00	26.66	26.66
May	0.00	20.77	20.77
June	0.00	23.61	23.61
July	0.00	20.64	20.64
August	0.00	25.00	25.00
September	0.00	24.14	24.14
October	0.00	24.08	24.08
November	0.00	26.66	26.66
December	0.00	24.94	24.94
Total	0.00	288.17	288.17

Management Train



Facility Volume Data (cf/day)

Operating Period 1

Facility	Manure	Wash Water	Flush Water	Bedding	Total Vol
Storage Pond #1	0.00	0.00	46.65	0.00	46.65
Dry Stack (Covered) #2	35.88	0.00	0.00	101.59	137.47
Storage Tank #2	333.18	0.00	0.00	213.33	546.51
Dry Stack (Covered) #1	570.35	0.00	0.00	68.33	638.68

Storage Tank #1	1950.75	534.72	0.00	255.00	2740.47

Waste Facilities: Milker Facility - separated solids + Barn 1

Dry Stack (Covered) #1

Max. Storage Vol. Method: Cum. Storage Vol

Storage Months: 6 months **Critical Months:** Nov - Apr

Design Dimensions

Shape:	Rectangle	**Top Length:**	671.5 ft
Sideslope:		**Bottom Length:**	671.5 ft
Storage Depth:	5.0 ft	**Top Width:**	35.0 ft
Freeboard:	0.0 ft	**Bottom Width:**	35.0 ft
		Bot Dimensions	35.0 x 671.5 ft
		TopDimensions:	35.0 x 671.5 ft

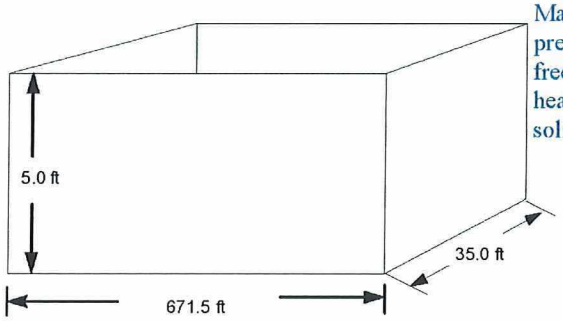
Design Quantities

25Yr24Hr Storm Depth:

Prec Minus Evap Depth:

Volume Required (Wastes): 117518 cu. ft

117,518 cu ft = 4,353 cu yd
~ 218 dump truck (20 yds) loads
assuming 1200 lbs/yd @ 20% solids
then
5,223,600 lbs/6 mo. -or-
2,612 tons/6 mo
Material is mostly Barn 1: 140 head pre-fresh (3 week pre-calf) deep bed freestall separated manure solids + 10 head straw pack + 25% separated solids from Barns 2,3,4.



Water Budget (1000 cu. ft.)

Month	Runoff	Withdrawal	Waste	Prec - Evap	Ext Prec	CumStorageVol
January	0	☐	19.80	5.88	0.00	58.76
February	0	☐	18.52	4.66	0.00	77.28
March	0	☐	19.80	5.93	0.00	97.08
April	0	☑	19.16	3.04	0.00	116.24
May	0	☐	19.80	0.00	0.00	19.80
June	0	☐	19.16	0.00	0.00	38.96
July	0	☐	19.80	0.00	0.00	58.76
August	0	☐	19.80	0.00	0.00	78.56
September	0	☐	19.16	1.88	0.00	97.72
October	0	☑	19.80	4.00	0.00	117.52
November	0	☐	19.16	6.70	0.00	19.16
December	0	☐	19.80	6.95	0.00	38.96

Dry Stack (Covered) #2: Heifer Facility - hutches, bed pack

Max. Storage Vol. Method: Cum. Storage Vol

Storage Months: 6 months **Critical Months:** Nov - Apr

Design Dimensions

Shape:	Rectangle	**Top Length:**	84.3 ft
Sideslope:		**Bottom Length:**	84.3 ft
Storage Depth:	5.0 ft	**Top Width:**	60.0 ft
Freeboard:	0.0 ft	**Bottom Width:**	60.0 ft
		Bot Dimensions	60.0 x 84.3 ft
		TopDimensions:	60.0 x 84.3 ft

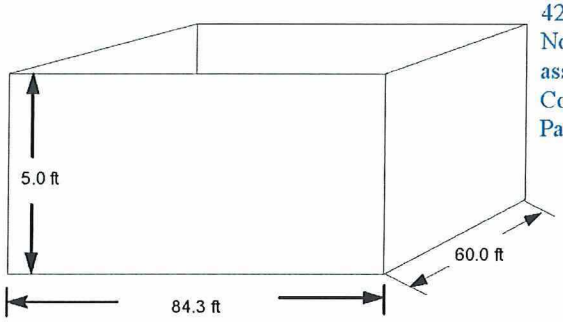
Design Quantities

25Yr24Hr Storm Depth:

Prec Minus Evap Depth:

Volume Required (Wastes): 25294 cu. ft

25,294 cu ft = 936.8 cu yd
~ 47 dump truck (20 yd) loads
Assuming 900 lbs/yd @ 45% solids, then
843,300 lbs/6 mo -or-
422 ton/6 mo
No Freestall capture (frozen or other) assumed
Consists of Calf Hutches (100 head), Bed Pack (80 head) only



Water Budget (1000 cu. ft.)

Month	Runoff	Withdrawal	Waste	Prec - Evap	Ext Prec	CumStorageVol
January	0	☐	4.26	1.26	0.00	12.65
February	0	☐	3.99	1.00	0.00	16.63
March	0	☐	4.26	1.28	0.00	20.90
April	0	☑	4.12	0.65	0.00	25.02
May	0	☐	4.26	0.00	0.00	4.26
June	0	☐	4.12	0.00	0.00	8.39
July	0	☐	4.26	0.00	0.00	12.65
August	0	☐	4.26	0.00	0.00	16.91
September	0	☐	4.12	0.40	0.00	21.03
October	0	☑	4.26	0.86	0.00	25.29
November	0	☐	4.12	1.44	0.00	4.12
December	0	☐	4.26	1.50	0.00	8.39

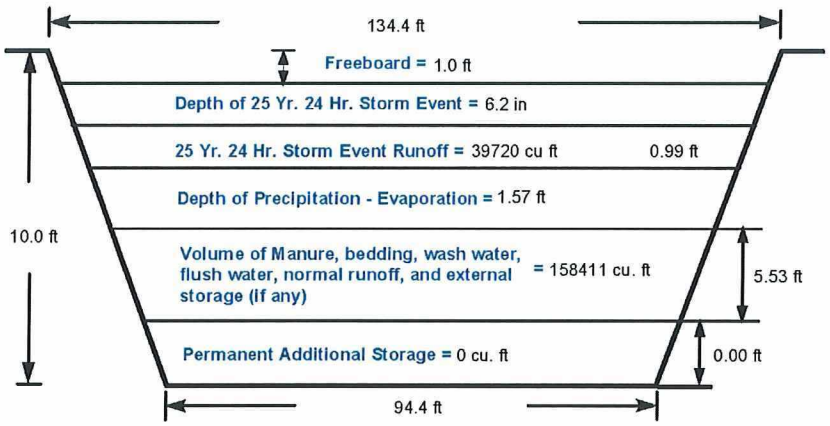
Storage Pond #1: Silage Pond - 100% stormwater + 17,000 ton corn leachate

Max. Storage Vol. Method: Cum. Storage Vol

Storage Months: 6 months **Critical Months:** Nov - Apr

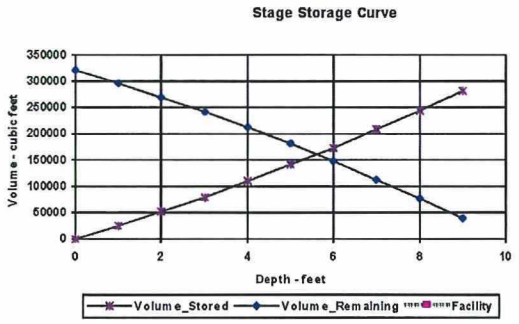
Design Dimensions

Shape:	Rectangle	**Top Length:**	134.4 ft	**25Yr24Hr Storm Depth:**	6.2 in
Sideslope:	2:1	**Bottom Length:**	94.4 ft	**Prec Minus Evap Depth:**	1.57 ft
Storage Depth:	9.0 ft;	**Top Width:**	300.0 ft	**Volume Required (Wastes):**	158411 cu. ft
Freeboard:	1.0 ft	**Bottom Width:**	260.0 ft		
		Bot Dimensions	260.0 x 94.4 ft		
Permament Additional Storage	0.00 ft	**TopDimensions:**	300.0 x 134.4 ft		



Water Budget (1000 cu. ft.)

Month	Runoff	Withdrawal	Waste	Prec - Evap	Ext Prec	CumStorageVol
January	21.63	☐	1.45	10.65	0.00	112.93
February	19.85	☐	1.35	8.82	0.00	142.95
March	30.18	☐	1.45	11.66	0.00	186.24
April	26.66	☑	1.40	7.39	0.00	221.69
May	20.77	☐	1.45	1.50	0.00	23.72
June	23.61	☐	1.40	1.16	0.00	49.89
July	20.64	☐	1.45	0.00	0.00	71.98
August	25.00	☐	1.45	2.52	0.00	100.94
September	24.14	☐	1.40	5.56	0.00	132.04
October	24.08	☑	1.45	8.39	0.00	165.96
November	26.66	☐	1.40	12.30	0.00	40.36
December	24.94	☐	1.45	12.46	0.00	79.21



Storage Tank #1: Milker Liquid Waste (milkhouse + separated liquids)

Max. Storage Vol. Method: Cum. Storage Vol **Covered:** No

Storage Months: 6 months **Critical Months:** Nov - Apr

Design Dimensions

Shape: Circle

Top Diameter: 112.6 ft

Bottom Diameter: 112.6 ft

Storage Depth: 52.0

Freeboard: 0.0 ft

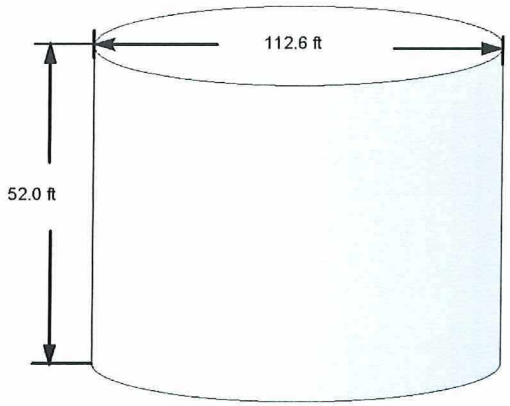
Permament Additional Storage 0.00 ft

Design Quantities

25Yr24Hr Storm Depth: 6.2 in

Prec Minus Evap Depth: 1.41 ft

Volume Required (Wastes): 498766 cu. ft



Water Budget (1000 cu. ft.)

Month	Runoff	Withdrawal	Waste	Prec - Evap	Ext Prec	CumStorageVol
January	0	☐	84.95	2.49	0.00	260.40
February	0	☐	79.47	1.98	0.00	341.85
March	0	☐	84.95	2.51	0.00	429.32
April	0	☑	82.21	1.29	0.00	512.82
May	0	☐	84.95	0.00	0.00	84.95
June	0	☐	82.21	0.00	0.00	167.17
July	0	☐	84.95	0.00	0.00	252.12
August	0	☐	84.95	0.00	0.00	337.08
September	0	☐	82.21	0.80	0.00	420.09
October	0	☑	84.95	1.69	0.00	506.74
November	0	☐	82.21	2.84	0.00	85.05
December	0	☐	84.95	2.95	0.00	172.95

Storage Tank #2: Heifer Facility - freestall alleys barn 1, 2, + pack alley

Max. Storage Vol. Method: Cum. Storage Vol **Covered:** No

Storage Months: 6 months **Critical Months:** Nov - Apr

Design Dimensions

Shape: Circle

Top Diameter: 125.2 ft

Bottom Diameter: 125.2 ft

Storage Depth: 10.0

Freeboard: 0.0 ft

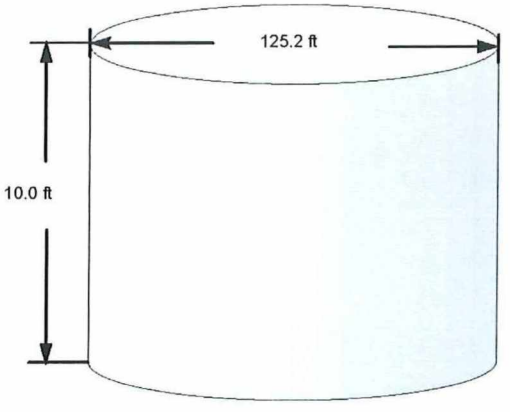
Permament Additional Storage 0.00 ft

Design Quantities

25Yr24Hr Storm Depth: 6.2 in

Prec Minus Evap Depth: 1.41 ft

Volume Required (Wastes): 99465 cu. ft



Water Budget (1000 cu. ft.)

Month	Runoff	Withdrawal	Waste	Prec - Evap	Ext Prec	CumStorageVol
January	0	☐	16.94	3.08	0.00	60.51
February	0	☐	15.85	2.44	0.00	78.80
March	0	☐	16.94	3.11	0.00	98.85
April	0	☑	16.40	1.59	0.00	116.84
May	0	☐	16.94	0.00	0.00	16.94
June	0	☐	16.40	0.00	0.00	33.34
July	0	☐	16.94	0.00	0.00	50.28
August	0	☐	16.94	0.00	0.00	67.22
September	0	☐	16.40	0.99	0.00	84.60
October	0	☑	16.94	2.09	0.00	103.64
November	0	☐	16.40	3.51	0.00	19.90
December	0	☐	16.94	3.64	0.00	40.49

Appendix H

ReadyAG© Disaster and Defense Preparedness for Production Agriculture Workbook

USDA
United States Department of Agriculture

Connecticut
Comprehensive Nutrient Management Plan

Amendment
Graywall Farm CNMP

(update to March 2025 version)

Amendment prepared to address CT DEEP Request for Additional Information (RFAI):

USDA IS AN EQUAL OPPORTUNITY PROVIDER, EMPLOYER, AND LENDER.

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at How to File a Program Discrimination Complaint and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by:

1. mail: U.S. Department of Agriculture
   Office of the Assistant Secretary for Civil Rights
   1400 Independence Avenue, SW
   Washington, D.C. 20250-9410;
(2) fax: (202) 690-7442; or
(3) email: program.intake@usda.gov.

USDA is an equal opportunity provider, employer, and lender.

USDA's goal is for AFO/CAFO owners and operators to take voluntary actions to minimize potential water and air pollutants from storage facilities, confinement areas, and land application areas. The objective of a CNMP is to provide AFO owners and operators with a plan to manage manure and organic byproducts by combining conservation practices and management activities into a conservation system that, when implemented, will control soil erosion and protect water and air quality. *(190-405-GM, 1st Ed., Amend. 31, Oct 2015)*

Comprehensive Nutrient Management Planner
As a Comprehensive Nutrient Management Planner, I certify that I have written and prepared this *Comprehensive Nutrient Management Plan* for technical adequacy and that the elements of the document are technically compatible, reasonable and can be implemented.

Name: Kyle Dolce	
Title: RC&D Nutrient Management Specialist	
Signature: KYLE DOLCE (Affiliate) Digitally signed by KYLE DOLCE (Affiliate) Date: 2025.07.16 09:52:38 -04'00'	**Date:**

Conservation Planner
As a Conservation Planner, I certify that I have reviewed this *Comprehensive Nutrient Management Plan* for technical adequacy and that the elements of the document are technically compatible, reasonable and can be implemented.

Name: Kathryn Bousquet	
Title: CT State Agronomist	
Signature: KATHRYN BOUSQUET Digitally signed by KATHRYN BOUSQUET Date: 2025.07.16 09:44:54 -04'00'	**Date:**

CNMP Owner/Operator
As the owner/operator of this CNMP, I, as the decision maker, have been involved in the planning process and agree that the items/practices listed in each element of the CNMP are needed. I understand that I am responsible for keeping all the necessary records associated with the implementation of this CNMP. It is my intention to implement/accomplish this CNMP in a timely manner as described in the plan.

Name: Lincoln Chesmer, owner Graywall Farm	
Signature: e-Signed by Lincoln Chesmer For, if applicable: On 07-18-25	**Date:**

Graywall Farms Updated CNMP Review
Draft Agenda
May 16, 2025

Purpose:
On March 14, 2025, the Department of Energy and Environmental Protection ("DEEP") received Graywall Farm's updated CNMP in response to a request for additional information. DEEP has reviewed the updates to the CNMP and has developed the list of comments and questions below to discuss during the meeting on May 16, 2025.

Review Comments/Questions:

1. In response to Additional Question 5, the Chemical Handling section of the CNMP was updated to reflect that they are a regulatory agency permitted facility and that no chemicals are stored at the operation. Does the facility store sanitary chemicals for dairy milking equipment on site?
2. The table titled *'Average water, wind, irrigation, gully and ephemeral erosion estimates'* referenced in Additional Question 6 was removed from the CNMP. Please explain why this table was removed.
3. The table titled *'Crop Period Sheet and Rill Erosion Estimates'* referenced in Additional Question 7 was removed from the CNMP. Please explain why this table was removed.
4. In response to Additional Question 8, the table titled *'Connecticut Phosphorus Index'* has been updated, however, the field names differ from the February 2021 CNMP. Did Graywall Farms add or remove any of the fields in the CNMP?
5. Upon review of Appendix E *Manure Application Buffers* maps, DEEP identified that the fields don't correlate with the fields in the other tables. Specifically, there are no distinguishing markers/naming conventions that make it clear which field in the *Manure Application Buffers* maps correlate with fields in the table titled *'Field Information'*. Therefore, it is impossible to tell how the setback distances apply to each field. Graywall farms must identify how each field outlined in the *Manure Application Buffers* maps correlated with fields in the table titled *'Field Information'*.
6. The table titled *'Field Information'* identifies that manure can be spread on 100% of every field. However, a review of the *Manure Application Buffers* maps reveals that some fields are within the 100ft setback distance. Please elaborate on this.
7. In response to Additional Question 10, DEEP requested the Permittee identify what X represents in the *"Manure Application Planning Calendar"* tables. There is no indication of what X is in the *'Manure Application Planning Calendar'*.
8. The following observations were identified upon review of Appendix E *Manure Application Buffers* maps:
    a. Chappell Rd fields: Field 14 appears to be farmed within the 100 ft setback from Susquetonscut Brook.
    b. Kasaceck Fields: Field 4 and 3 are almost completely within the 100 ft setback from Susquetonscut Brook.
    c. The maps do not reflect where a 35 ft setback is used instead of a 100ft setback. Do any fields use a 35 ft permanently vegetated buffer in the place of a 100ft setback?

Table of Contents – Amendment

Question 1. Chemical Handling
1.1. Updated response provided on page 6 of the Amendment document

Question 2. Table "Average water, wind, irrigation, gully and ephemeral erosion estimates"
2.1. Previously, inadvertently removed. Accurate information provided via table provided on pages 7-8 of Amendment document

Question 3. Table "Crop Period Sheet and Rill Erosion Estimates"
3.1. Previously, inadvertently removed. Accurate information provided via table provided on page 9-12 of Amendment document

Question 4. Connecticut Phosphorus Index: Field Name crosswalk
4.1. Table 4 includes a listing of field-specific soil samples conducted by Johnny's Ag Service in 2021 for Graywall Farm compared to soil samples conducted by the same company for Graywall Farm in 2024. Naming conventions altered in 2024 from 2021; fields no longer under control by Graywall Farm are listed on page 16. Crosswalk provided on page 13-16 of Amendment document

Question 5. Manure Application Buffer Maps correlated to Field Information
Previous oversight. Section 5 - Table 5 correlates Soil Sample names with Buffer Maps and USDA Farm Service Agency (FSA) farm and tract numbers as utilized by USDA NRCS within this CNMP. Section 6 (subsequent) - Table 6 in the subsequent section provides comparison of "total field acres" versus "spreadable acres

5.1. Correlation Table provided on page 17 of Amendment document
5.2. Updated Manure Application Buffer maps provided on pages 18-33 of Amendment document

Question 6. Field Information Table: SPREADABLE ACRES
6.1. Updated table depicting accurate spreadable acres provided on pages 34-35 of Amendment document

Question 7. Manure Application Planning Calendar
7.1. Previous formatting error. Corrected legend accompanying Manure Application Planning Calendar provided on pages 36-44 of Amendment document

Question 8. Setback Buffers: Chappell Road Field 14, Kasaceck Field 4 and Kasaceck Field 3
8.1. Specific 35-foot setback buffer explanation for Chappell and Kasaceck Fields provided on page 45; updated maps for these fields provided on pages 32 and 33, respectively of Amendment document

Question 1. Chemical Handling

1.1. Chemical Handling

If checked, the indicated measures will be taken to prevent chemicals and other contaminants from contaminating process wastewater or storm water storage and treatment systems. Typical best management practices for basic chemical handling include keeping the chemical storage area free of clutter and debris, stored off the ground and away from contact with water, in the chemical's original containers with properly marked labels and safety information, a spill containment kit, ready access to a means of fresh water or eye wash, or similar safety equipment.

☐ This is not a regulatory agency permitted facility. This section does not apply.

	Measure
☑	All chemicals are stored in proper containers, expired chemicals and empty containers are properly disposed of in accordance with state and federal regulations, and pesticides and associated refuse are disposed of in accordance with the FIFRA label.
☑	Chemical storage areas are self-contained with no drains or other pathways that will allow spilled chemicals to exit the storage area.
☐	Chemical storage areas are covered to prevent chemical contact with rain or snow.
☑	Emergency procedures and equipment are in place to contain and clean up chemical spills.
☐	Chemical handling and equipment wash areas are designed and constructed to prevent contamination of surface waters, wastewater and storm water storage, and treatment systems.
☐	All chemicals are custom applied, and no chemicals are stored at the operation. Equipment wash areas are designed and constructed to prevent contamination of surface waters and waste water and storm water storage and treatment systems.

Question 2. Table 2

“Average water, wind, irrigation, gully and ephemeral erosion estimates”

2.1. Table includes data from RUSLE2 portion of the Manure Management Planner tool

TABLE 2 Field	Predominant Soil Type	T Factor (t/ac/yr)	Slope (%)	Water (Sheet and Rill) (t/ac/yr)	Wind (t/ac/yr)	Irrigation Erosion Controlled (y/n)	Gully Erosion Controlled (y/n)	Ephemeral Erosion Controlled (y/n)
Scanlan	284B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Pool House R	84B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Briggs Rd E	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Briggs Rd W	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
P Swamp	84B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
SeagersSho W	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
SeagersHou W	60B (Canton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
SeagerHouseE	60B (Canton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
SeagersSho E	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Floras	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
VillageHillW	284B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
VillageHillE	84B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Krauss	60B (Canton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
MfieldCitBack	60C (Canton FSL)	3	11.5	0.0	0.0	n/a	Yes	Yes
MfieldCitFT	60C (Canton FSL)	3	11.5	0.0	0.0	n/a	Yes	Yes
MfieldPleValley	60C (Canton FSL)	3	11.5	0.0	0.0	n/a	Yes	Yes
Benders	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Pultz B	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Bogg Lane	84D (Paxton FSL)	3	20.0	0.0	0.0	n/a	Yes	Yes
Heifers	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Red House 4	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
HomeBarn	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Pultz F	84C (Paxton FSL)	3	11.5	0.0	0.0	n/a	Yes	Yes
Pool House L	84B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Mark Short	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Mark Long	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Kick Hill L	60B (Canton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Kick Hill R	60B (Canton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Burdick	84B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes

TABLE 2 Field	Predominant Soil Type	T Factor (t/ac/yr)	Slope (%)	Water (Sheet and Rill) (t/ac/yr)	Wind (t/ac/yr)	Irrigation Erosion Controlled (y/n)	Gully Erosion Controlled (y/n)	Ephemeral Erosion Controlled (y/n)
Briggs Road Pit	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Seabury Big	84B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
ChappellRd	60B (Canton FSL)	3	5.5	0.3	0.0	n/a	Yes	Yes
RaffertyWoods	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
RaffertyHouse	84B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Gates	84B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Walden F	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Walden B	45B (Woodbridge FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Straus BR	38C (Hinckley MPM)	3	9.0	0.0	2.5	n/a	Yes	No
Straus BL	60B (Canton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Straus L	38C (Hinckley MPM)	3	9.0	0.0	2.5	n/a	Yes	No
HomeHouse	84B (Paxton FSL)	3	5.5	0.0	0.0	n/a	Yes	Yes
Kasaceck	38C (Hinckley MPM)	3	9.0	0.0	2.5	n/a	Yes	No

Question 3. Table 3 “Crop Period Sheet and Rill Erosion Estimates”

3.1. Table includes data from RUSLE2 portion of the Manure Management Planner tool

Note: Soil testing every 2-3 years is recommended. The crop period utilized in this planning tool adheres to a three-year cycle, inclusive of 2025, 2026, 2027. Updated soil tests should be conducted in 2027 to inform nutrient management plan for 2028.

TABLE 3 Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
Scanlan	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Pool House R	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Briggs Rd E	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.0
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
Briggs Rd W	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.0
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
P Swamp	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
SeagersSho W	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.0
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
SeagersHou W	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.0
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
SeagerHouseE	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.0
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
SeagersSho E	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.0
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
Floras	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
VillageHillW	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
VillageHillE	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0

TABLE 3 Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Krauss	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
MfieldCitBack	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.1
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
MfieldCitFT	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.1
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
MfieldPleValley	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.1
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Benders	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Pultz B	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Bogg Lane	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.0
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
Heifers	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Red House 4	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
HomeBarn	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Pultz F	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.0
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
Pool House L	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Mark Short	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.1
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
Mark Long	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0

TABLE 3 Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Kick Hill L	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Kick Hill R	2025	Orchardgrass	8/21/2024	8/20/2025	0.0
	2026	Orchardgrass	8/21/2025	8/20/2026	0.0
	2027	Orchardgrass	8/21/2026	8/20/2027	0.0
Burdick	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Briggs Road Pit	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Seabury Big	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
ChappellRd	2025	Corn for Silage, convent	5/6/2024	5/5/2025	2.6
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.3
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.2
RaffertyWoods	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
RaffertyHouse	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Gates	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Walden F	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Walden B	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Straus BR	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Straus BL	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0

TABLE 3 Field	Crop Year	Primary Crop	Starting Date (mm/dd/yyyy)	Ending Date (mm/dd/yyyy)	Crop Period Soil Loss (t/ac)
Straus L	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
HomeHouse	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0
Kasaceck	2025	Corn for Silage, convent	5/6/2024	5/5/2025	0.0
	2026	Corn for Silage, convent	5/6/2025	5/5/2026	0.0
	2027	Corn for Silage, convent	5/6/2026	5/5/2027	0.0

Question 4. Connecticut Phosphorus Index: Field Name crosswalk Table 4

4.1. Crosswalk Matrix of Field Names from 2021 versus 2024

Note: Amendment to CNMP Appendix C.

Table 4 includes a listing of field-specific soil samples conducted by Johnny's Ag Service in 2021 for Graywall Farm compared to soil samples conducted by the same company for Graywall Farm in 2024. Naming conventions altered in 2024 from 2021; fields no longer under control by Graywall Farm are listed on page 16.

2021 Soil Sample Name	2024 Soil Sample Name
Flegerts 1	Benders
Flegerts 2	
Flegerts 3	
Flegerts 4	
Flegerts 5	
Flegerts 6	
M City Rd 3	MfieldCitBack
M City Rd 2	MfieldCitFT
M City Rd 1	MfieldPleValley
Babcock Hill 1	Seabury Big
Babcock Hill 2	
Babcock Hill 3	
Babcock Hill 6	
Babcock Hill 10	
Chappel Rd Corn	ChappellRd
Chappel Rd Gras	
Briggs Rd	Briggs Rd E
LowBabcockHill1	Briggs Rd W
LowBabcockHill2	
LowBabcockHill3	
Bender 9	RaffertyWoods
Bender 11	
Bender 19	
Bender 1	RaffertyHouse
Bender 2	
Bender 7	Gates
BoggLnAbovePond	Bogg Lane
Bogg Ln 2	
Bogg Ln 1	HomeHouse
BoggLn Valley1	

2021 Soil Sample Name	2024 Soil Sample Name
EvergreenFarm 1	Kasaceck
EvergreenFarm 2	
EvergreenFarm 3	
EvergreenFarm 4	
EvergreenFarm 5	
EvergreenFarm 7	
Pultz 1	Pultz B
Pultz 2	
Flora	Floras
Home Farm 1	HomeBarn
Home Farm 4	
Home Farm 5	
Home Farm 6	
McCaw	
Krause 6	VillageHillW
Krause 7	
Krause 11	
Krause 8	VillageHillE
Krause 1	Krauss
Krause 3	
Krause 5	
Scanlon big lot	Burdick
Scanlon middle	
Scanlon back	
Scanlon front	
Kick Hill Lot	
Left of Scanlon	Pool House L
Segars 1	SeagersSho W
Segars 3	SeagersHou W
Segars 8	
Segars 9	
Segars 10	
Segars 11	SeagerHouseE
Segars 12	
Segars 13	
Segars 2	SeagersSho E
Segars 4	
Segars 6	
Segars 7	

2021 Soil Sample Name	2024 Soil Sample Name
Stebner 5	Mark Short
Stebner 1	Mark Long
Stebner 2	
Stebner 3	
Stebner 4	
Strauss 4	Straus BR
Strauss 13	
Strauss 6	Straus BL
Strauss 7	
Strauss 12	
Strauss 2	Straus L
Waldens 1	Walden B
Waldens 3	Walden F
Waldens 6	
Waldens 7	
Waldens 10	
Waldens 11	
Waldens 12	
Waldens 45	
Waldens 14	
Xmas Tree Grass	Kick Hill L
Xmas Tree Corn	Kick Hill R
Young Stock 1	Heifers
Young Stock 5	
Young Stock 6	
Young Stock 7	
Keys	Red House 4
Home Farm 2	
10acre Lot	Scanlan
ScanlonPumpkLot	
PigeonSwamp1	P Swamp
Young Stock 1	Heifers
Young Stock 5	
Young Stock 6	
Young Stock 7	
Carneys 1	Briggs Rd W
Carneys 2	
Carneys 3	
Carneys 4	
Carneys 5	

2021 Soil Sample Name	2024 Soil Sample Name
Fields that were not tested in 2021 because they were NOT under Graywall Farm's operational control at that time.	Pool House R
	Pultz F
	Briggs Road Pit
Synagogue Rd 3	Fields no longer under participant's control in 2024.
Synagogue Rd 4	
Synagogue Rd 5	
Synagogue Rd 6	
Synagogue Rd 9	
Strauss 5	
Bender/V.Hill3A	
Bender/V.Hill3B	
Bender/V.Hill 4	
Bender/V.Hill 5	
Bender/V.Hill 6	
Madley Rd 1	
Madley Rd 2	
Madley Rd 3	
Madley Bozworth	
Madley Rd 4	
Winery	
Randazzo	

Question 5. Manure Application Buffer Maps correlated to Field Information

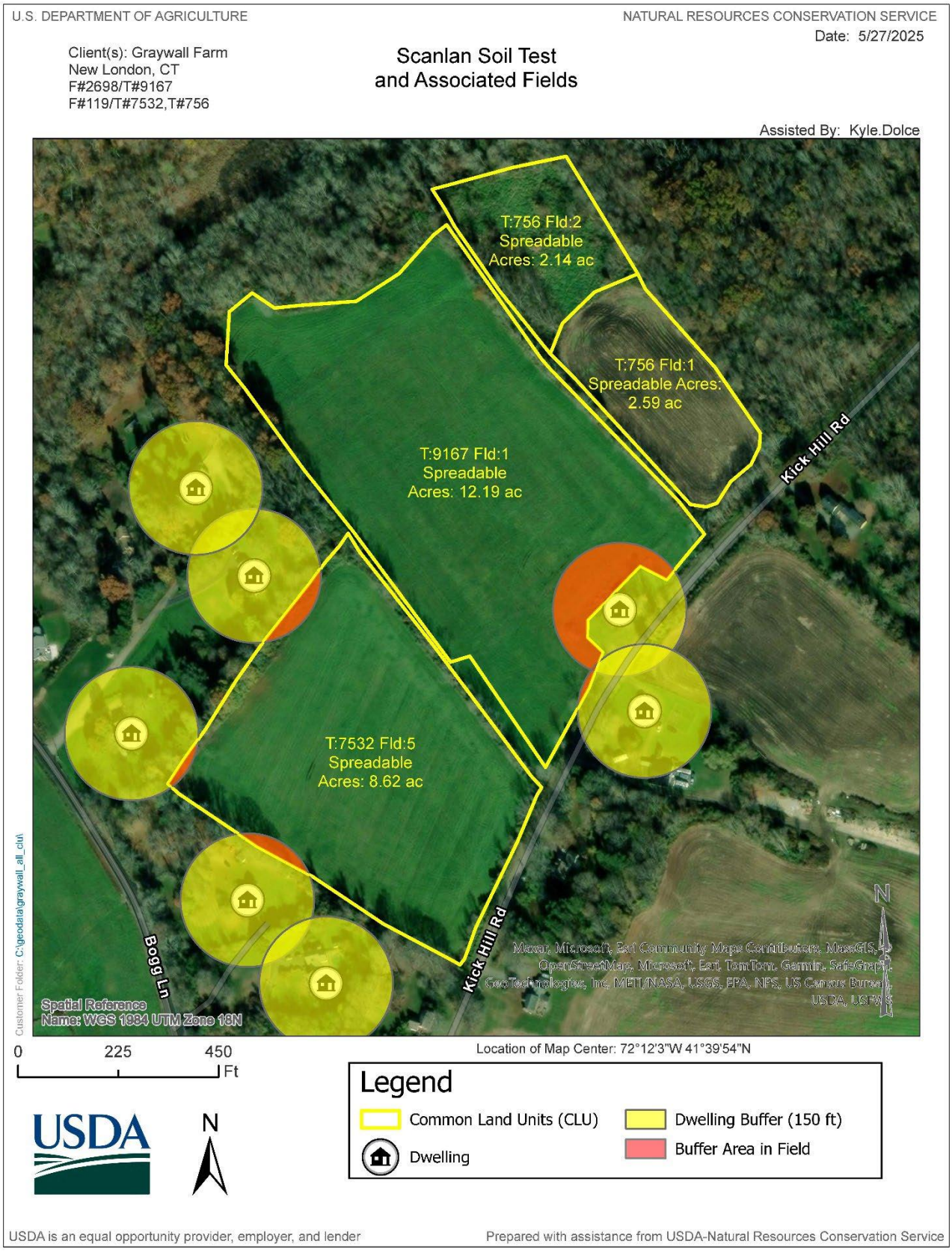
5.1. Correlation Table

Note: Amendment to CNMP Appendix E.

Table 5 correlates Soil Sample names with Buffer Maps and USDA Farm Service Agency (FSA) farm and tract numbers as utilized by USDA NRCS within this CNMP. Table 6 in the subsequent section provides comparison of "total field acres" versus "spreadable acres".

TABLE 5	Map Title	Farm Service Agency (FSA) Farm / Tract / Field that requires Manure Application Buffer		
Soil Sample ID	**(Maps are provided on pages 18-33 of this Amendment)**	**FSA Farm(s)**	**FSA Tract(s)**	**FSA Field(s)**
Scanlan	Scanlan Soil Test and Associated Fields	2698	9167	1
		119	7532	5
Pool House R	Pool House R Soil Test and Associated Fields	120	112	8
MfieldCitFT	MfieldCitFT Soil Test and Associated Field	906	928	2
Bogg Lane	Bogg Lane Soil Test and Associated Fields	1855	957	1,2
Heifers	Heifers Soil Test and Associated Fields	1774	8157	3
		2079	280	10
Red House 4	Red House 4 Soil Test and Associated Fields	774	565	26,27
		2079	76	9
Mark Short	Mark Short Soil Test and Associated Fields	2181	8557	7,8,9
Burdick	Burdick Soil Test and Associated Fields	119	111	3,4,9
Seabury Big	Seabury Big Soil Test and Associated Fields	2183	8219	25,47
RaffertyHouse	Rafferty House Soil Test and Associated Fields	2380	8783	74
Straus BR	Straus BR Soil Test and Associated Fields	2730	9213	13
Straus BL	Straus BL Soil Test and Associated Fields	2730	9213	43
Straus L	Straus L Soil Test and Associated Fields	2730	9213	24
HomeHouse	Home House Soil Test and Associated Fields	869	958	1,4,5,6,7
Kasaceck	Kasaceck Soil Test and Associated Fields	2079	117	1,2
			7523	4,10,13
ChappellRd	Chappell Road Soil Test and Associated Fields	2224	8609	14

5.2. Updated Manure Application Buffer Maps by field



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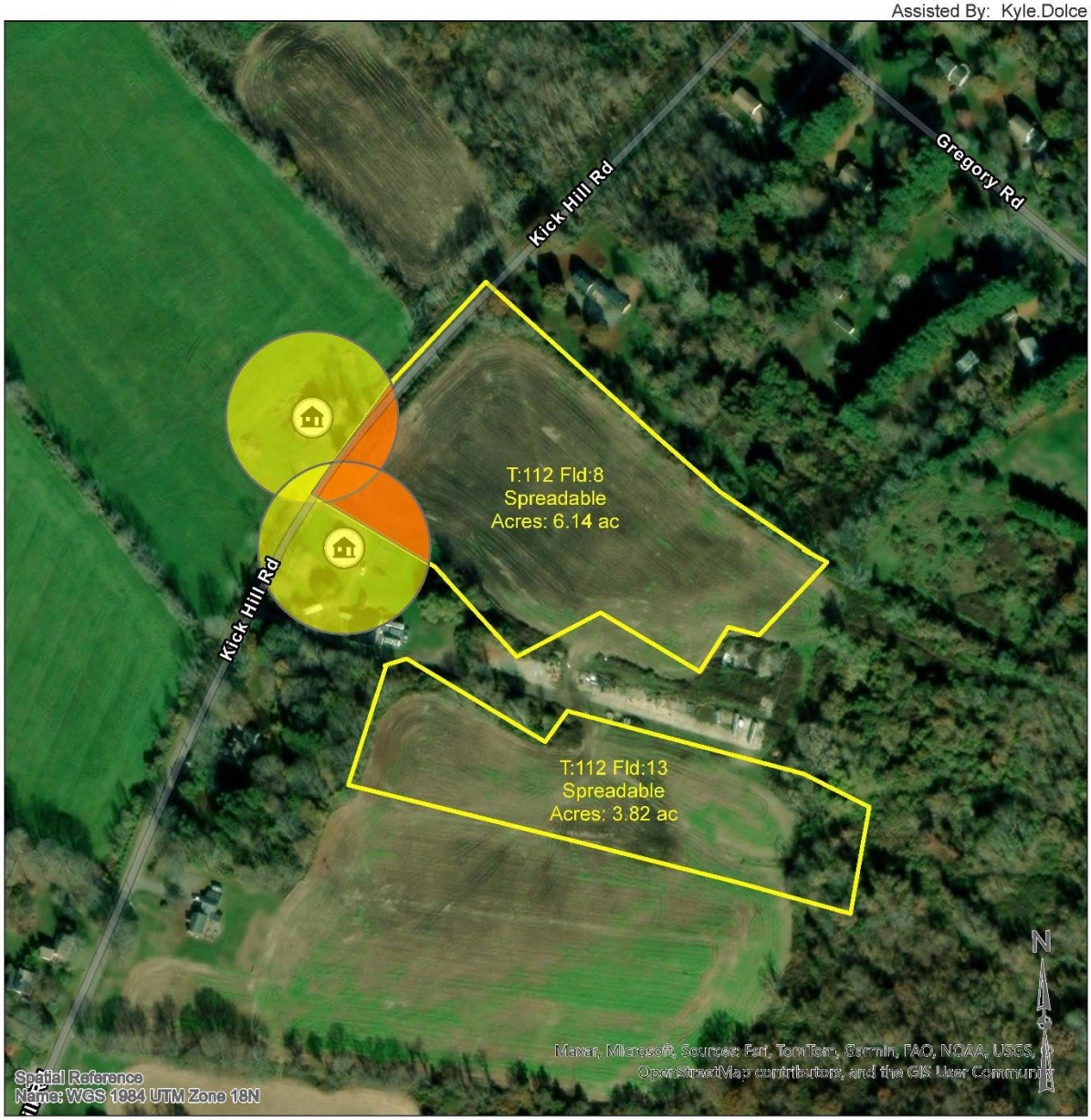
NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/5/2025

Client(s): Graywall Farm
New London, CT
F#120/T#112

Pool House R Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

Spatial Reference
Name: WGS 1984 UTM Zone 18N

0 212.5 425 Ft

Location of Map Center: 72°11'54"W 41°39'51"N

Legend

- Common Land Units (CLU)
- Dwelling
- Dwelling Buffer (150 ft)
- Buffer Area in Field

USDA

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U.S. DEPARTMENT OF AGRICULTURE

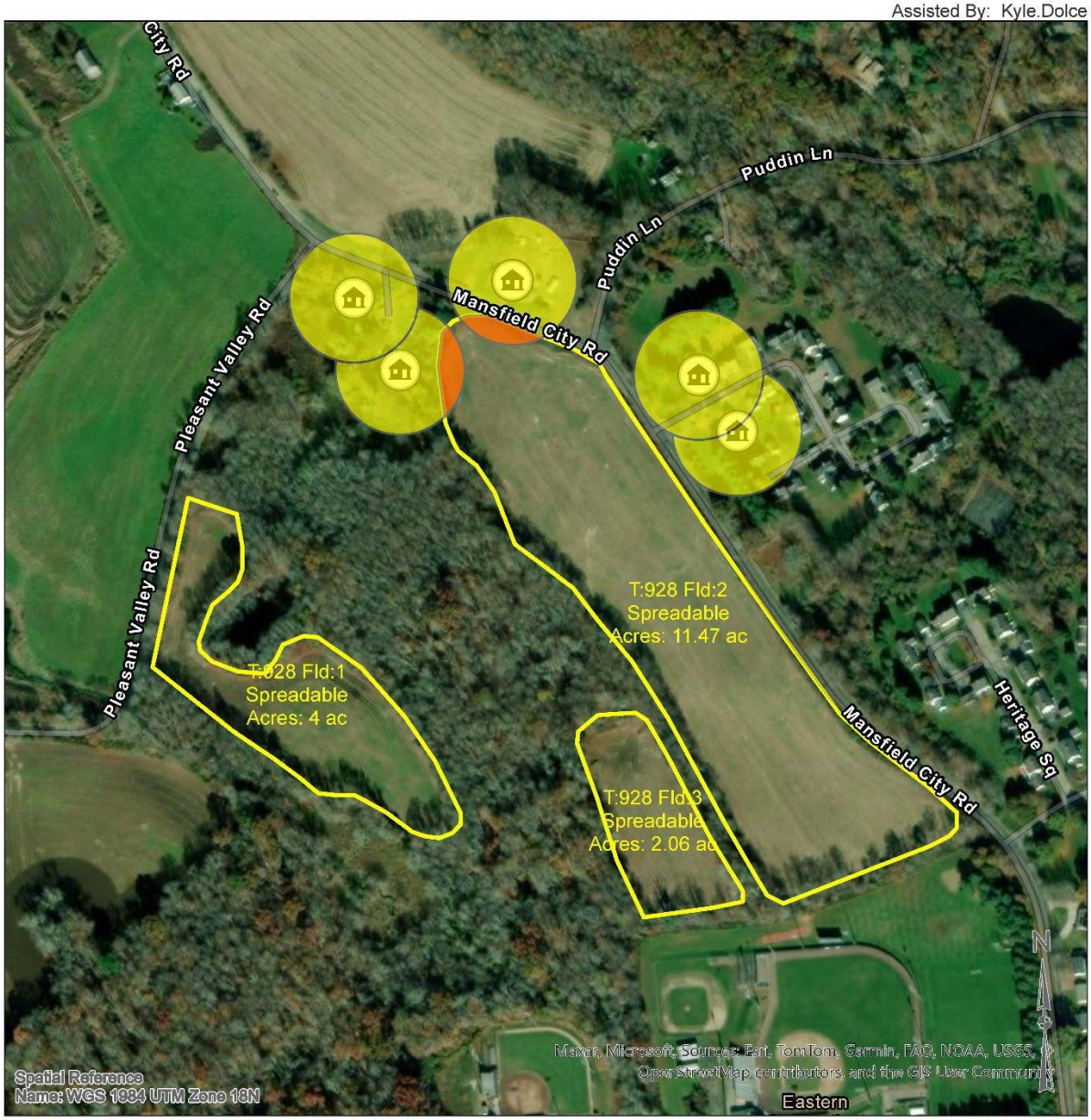
NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/10/2025

Client(s): Graywall Farm
New London, CT
F#906/T#928
Field 2

MfieldCitFT Soil Test and Associated Field

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 285 570 Ft

Location of Map Center: 72°13'11"W 41°44'16"N

Legend

- Common Land Units (CLU)
- Dwelling
- Dwelling Buffer (150 ft)
- Buffer Area in Field

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NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/10/2025

Client(s): Graywall Farm
New London, CT
F#1855/T#957

Bogg Lane Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 250 500 Ft

Location of Map Center: 72°12'24"W 41°39'46"N

USDA

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Legend

- Buffer Area in Field
- Dwelling Buffer (150ft)
- Water Buffer (100ft)
- Dwelling
- Common Land Units (CLU)
- Water

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NATURAL RESOURCES CONSERVATION SERVICE

Date: 7/15/2025

Client(s): Graywall Farm
New London, CT
F#2826/T#674
F#1774/T#8157
F#2079/T#280

Heifers Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 225 450 Ft

Location of Map Center: 72°13'16"W 41°38'51"N

Legend

- Dwelling
- Common Land Units (CLU)
- Dwelling Buffer (150ft)
- Buffer Area in Field

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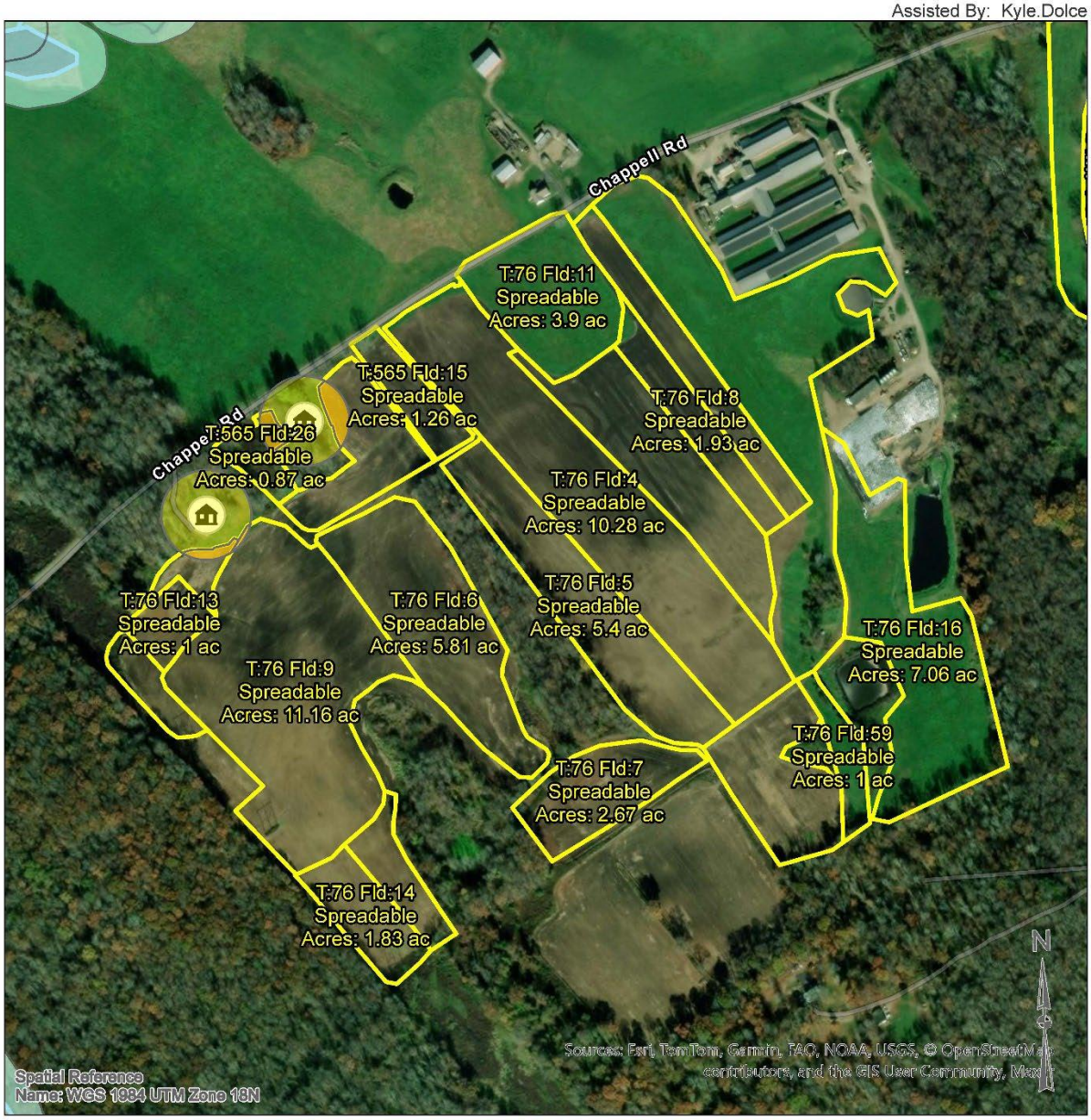
NATURAL RESOURCES CONSERVATION SERVICE

Date: 7/15/2025

Client(s): Graywall Farm
New London, CT
F#774/T#565
F#2079/T#76

Red House 4 Soil Test and Associated Fields

Assisted By: Kyle.Dolce



0 410 820 Ft

Location of Map Center: 72°12'34"W 41°39'20"N

Legend

- Water Buffer (100ft)
- Dwelling
- Common Land Units (CLU)
- Dwelling Buffer (150ft)
- Buffer Area in Field

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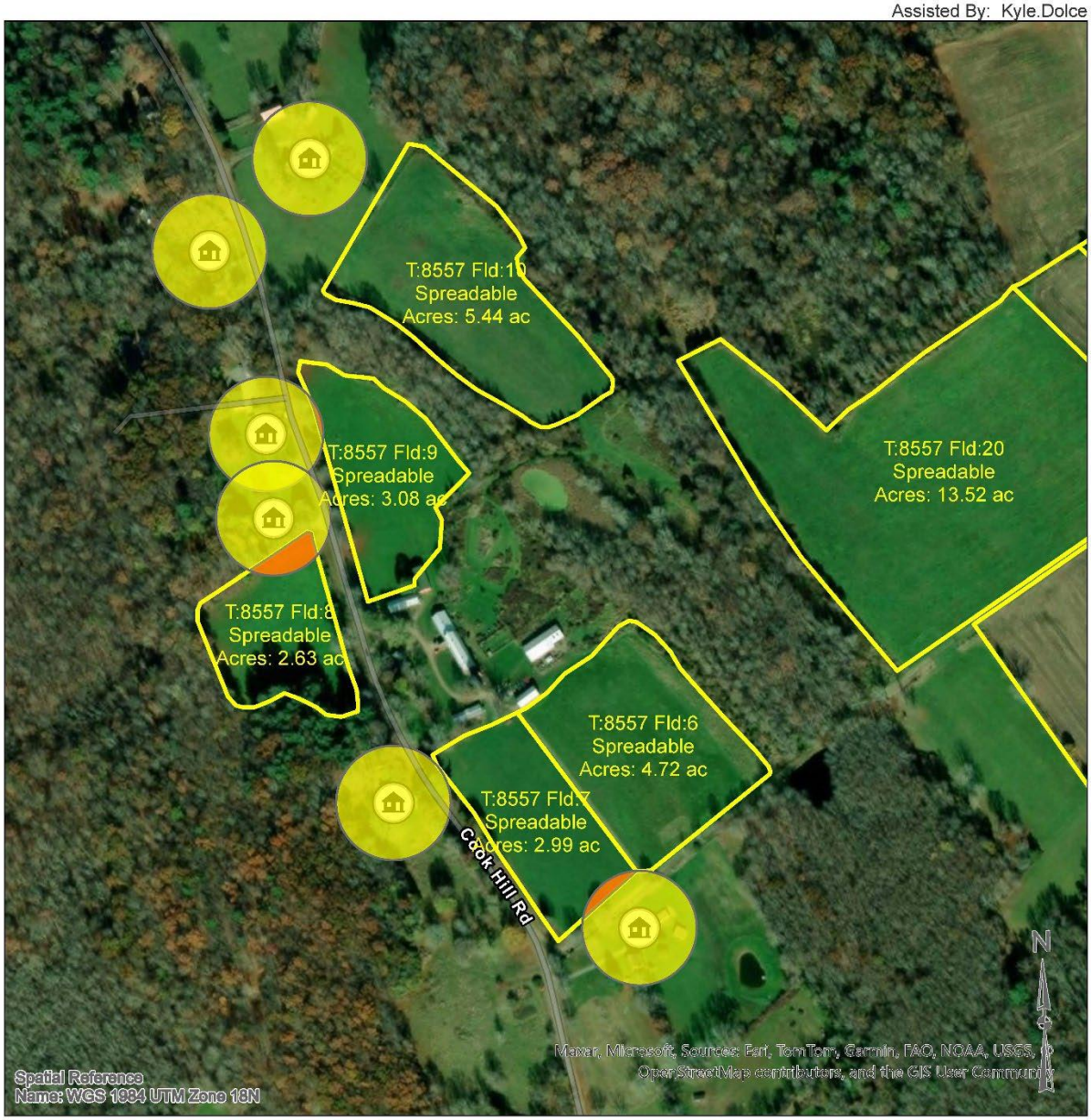
NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/10/2025

Client(s): Graywall Farm
New London, CT
F#2181/T#8557
Field #'s: 6-10

Mark Short Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 320 640 Ft

Location of Map Center: 72°15'35"W 41°40'45"N

Legend

- Buffer Area in Field
- Dwelling Buffer (150ft)
- Dwelling
- Common Land Units (CLU)
- Water

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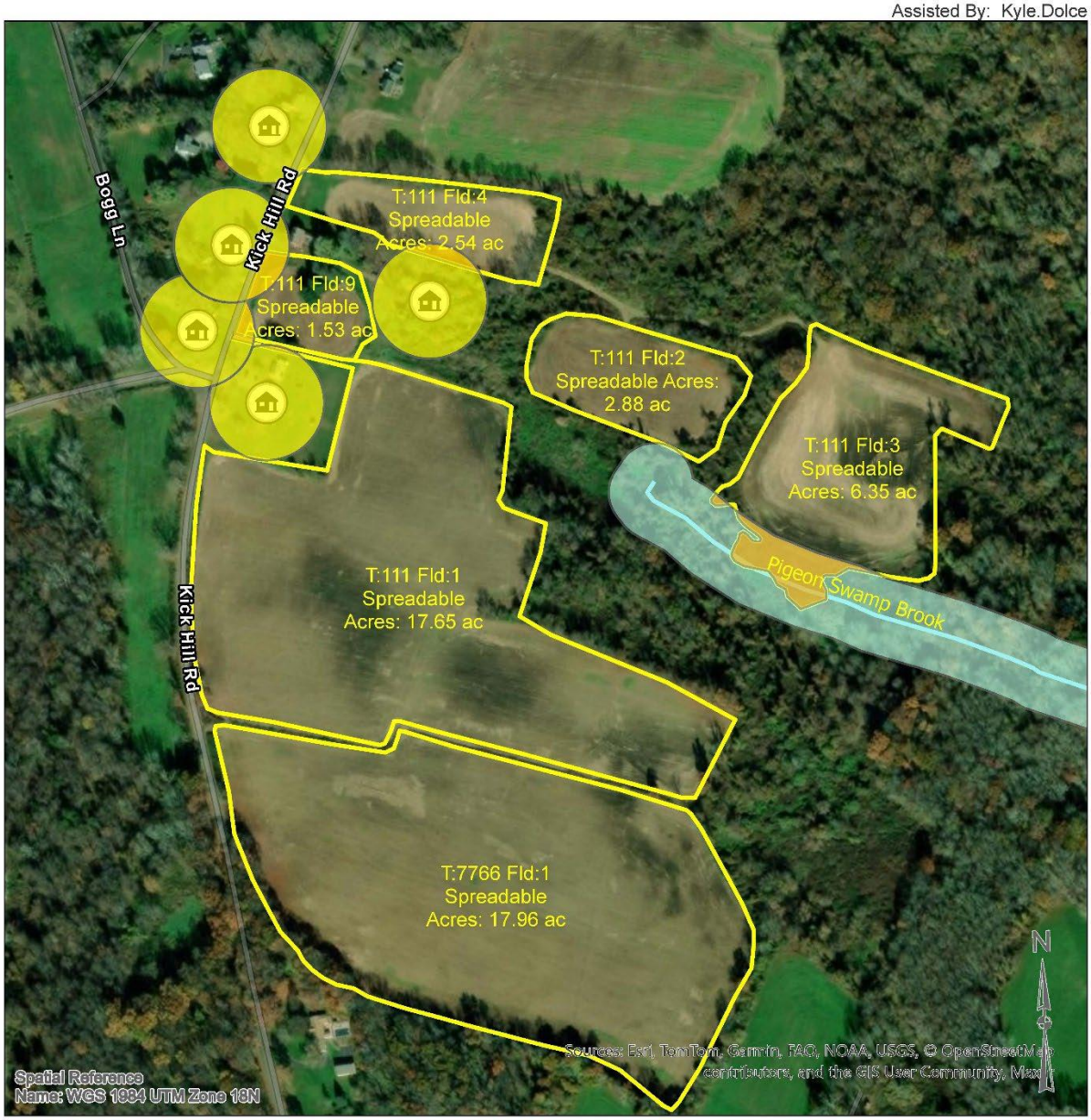
Date: 6/10/2025

Client(s): Graywall Farm
New London, CT
F#1273/T#7766
F#119/T#111

Burdick Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 320 640 Ft

Location of Map Center: 72°11'57"W 41°39'32"N

Legend

- Water Buffer (100ft)
- Dwelling
- Common Land Units (CLU)
- Water
- Buffer Area in Field
- Dwelling Buffer (150ft)

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NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/10/2025

Client(s): Graywall Farm
New London, CT
F#2183/T#8219
Field #'s: 9,10,17,25,47,50

Seabury Big Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 500 1000 Ft

Location of Map Center: 72°11'6"W 41°39'1"N

Legend

- Water Buffer (100ft)
- Water
- Dwelling
- Dwelling Buffer (150ft)
- Buffer Area in Field
- Common Land Units (CLU)

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NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/12/2025

Client(s): Graywall Farm
New London, CT
F#2380/T#8783

RaffertyHouse Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 235 470 Ft

Location of Map Center: 72°13'28"W 41°41'14"N

USDA

N

Legend

- Buffer Area in Field
- Dwelling Buffer (150ft)
- Dwelling
- Common Land Units (CLU)

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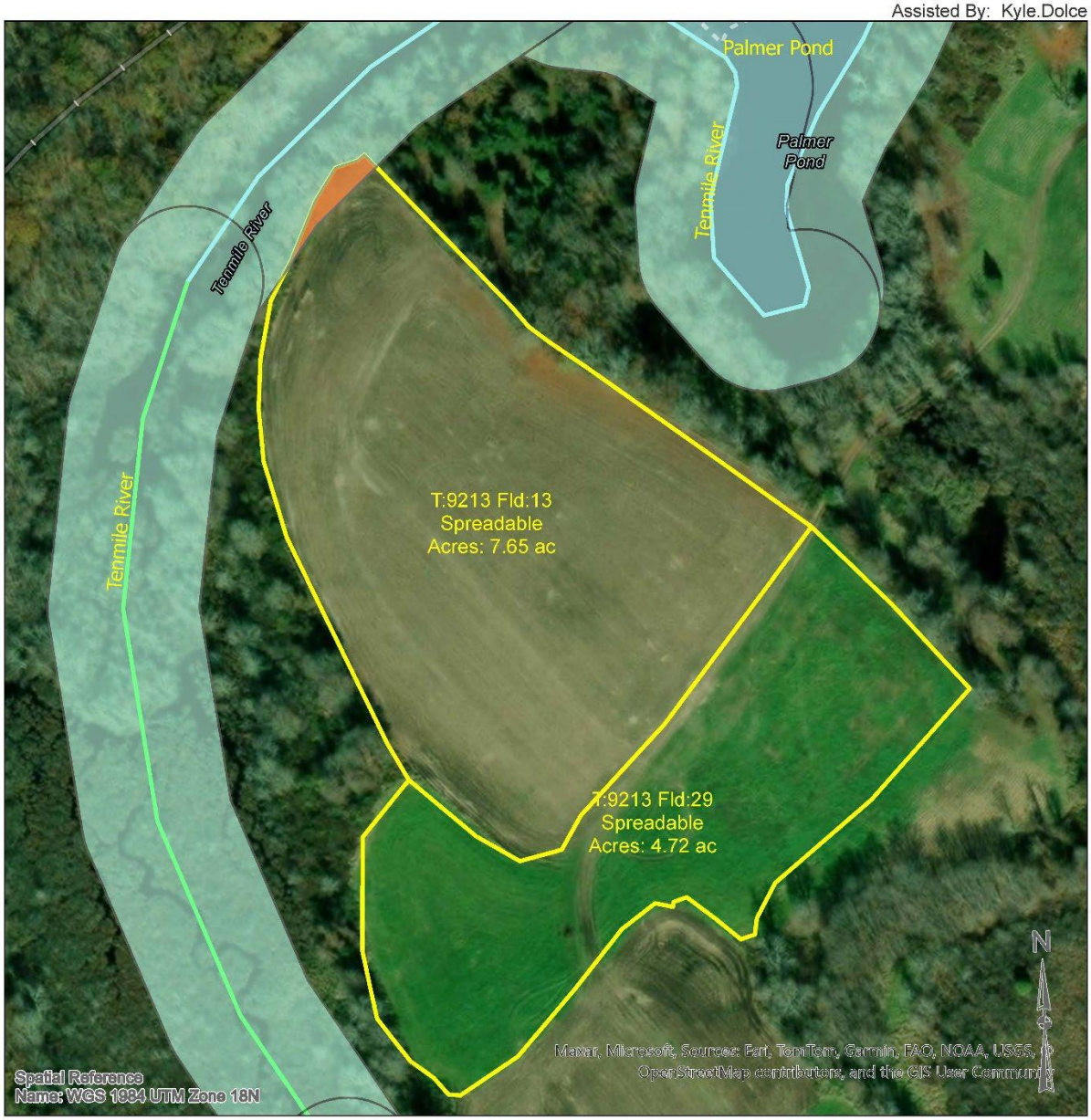
Date: 6/10/2025

Client(s): Graywall Farm
New London, CT
F#2730/T#9213

Straus BR Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 160 320 Ft

Location of Map Center: 72°16'12"W 41°40'10"N

Legend

- Water Buffer (100ft)
- Dwelling
- Common Land Units (CLU)
- Water
- Buffer Area in Field

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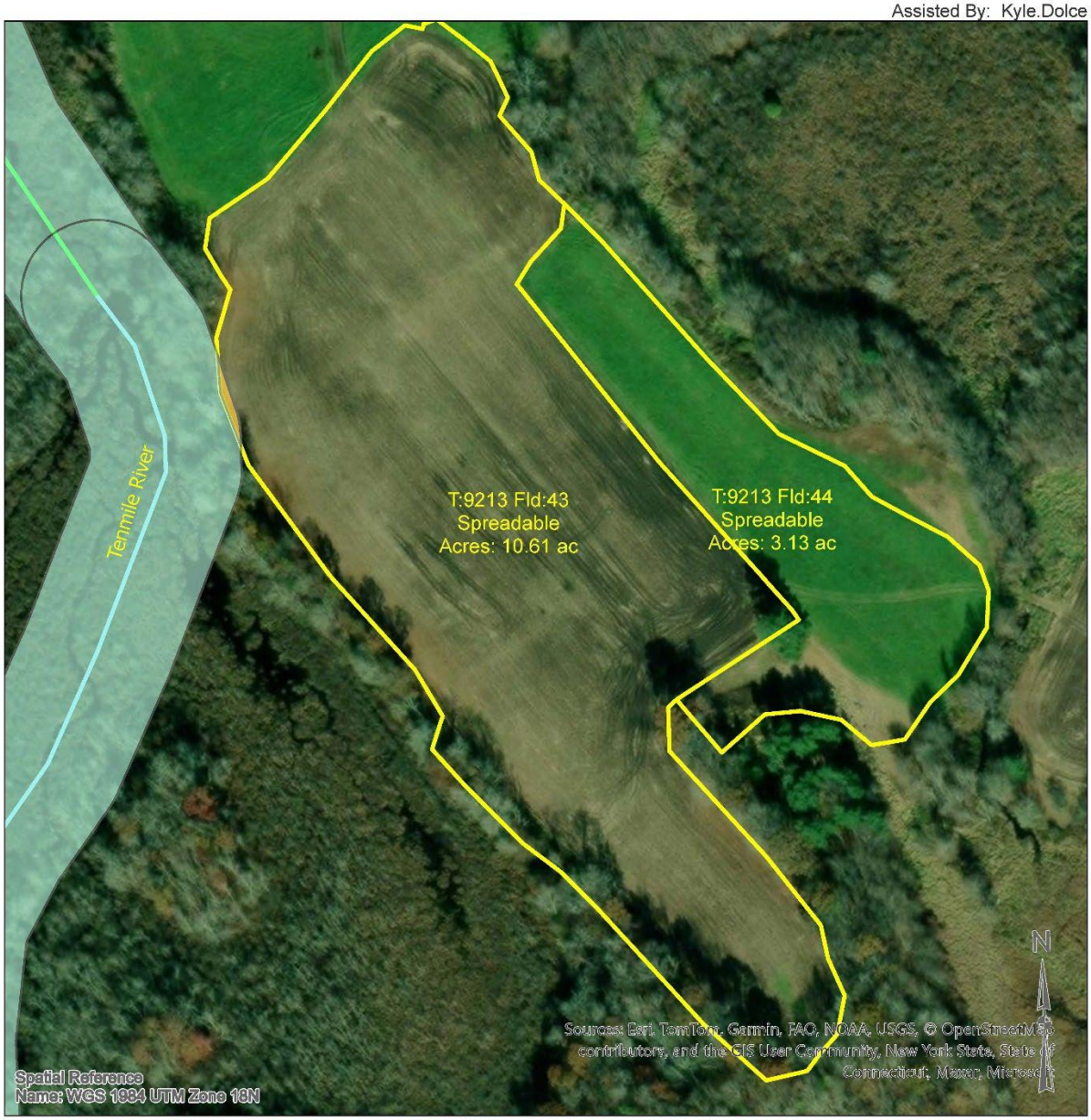
NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/10/2025

Client(s): Graywall Farm
New London, CT
F#2730/T#9213

Straus BL Soil Test and Associated Fields

Assisted By: Kyle.Dolce



0 160 320 Ft

Location of Map Center: 72°16'8"W 41°39'58"N

Legend

- Water Buffer (100ft)
- Dwelling
- Common Land Units (CLU)
- Water
- Buffer Area in Field

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NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/10/2025

Client(s): Graywall Farm
New London, CT
F#2730/T#9213

Straus L Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 315 630 Ft

Location of Map Center: 72°15'53"W 41°40'7"N

Legend

- Water Buffer (100ft)
- Water
- Dwelling
- Dwelling Buffer (150ft)
- Buffer Area in Field
- Common Land Units (CLU)

USDA

N

USDA is an equal opportunity provider, employer, and lender

Prepared with assistance from USDA-Natural Resources Conservation Service

U.S. DEPARTMENT OF AGRICULTURE

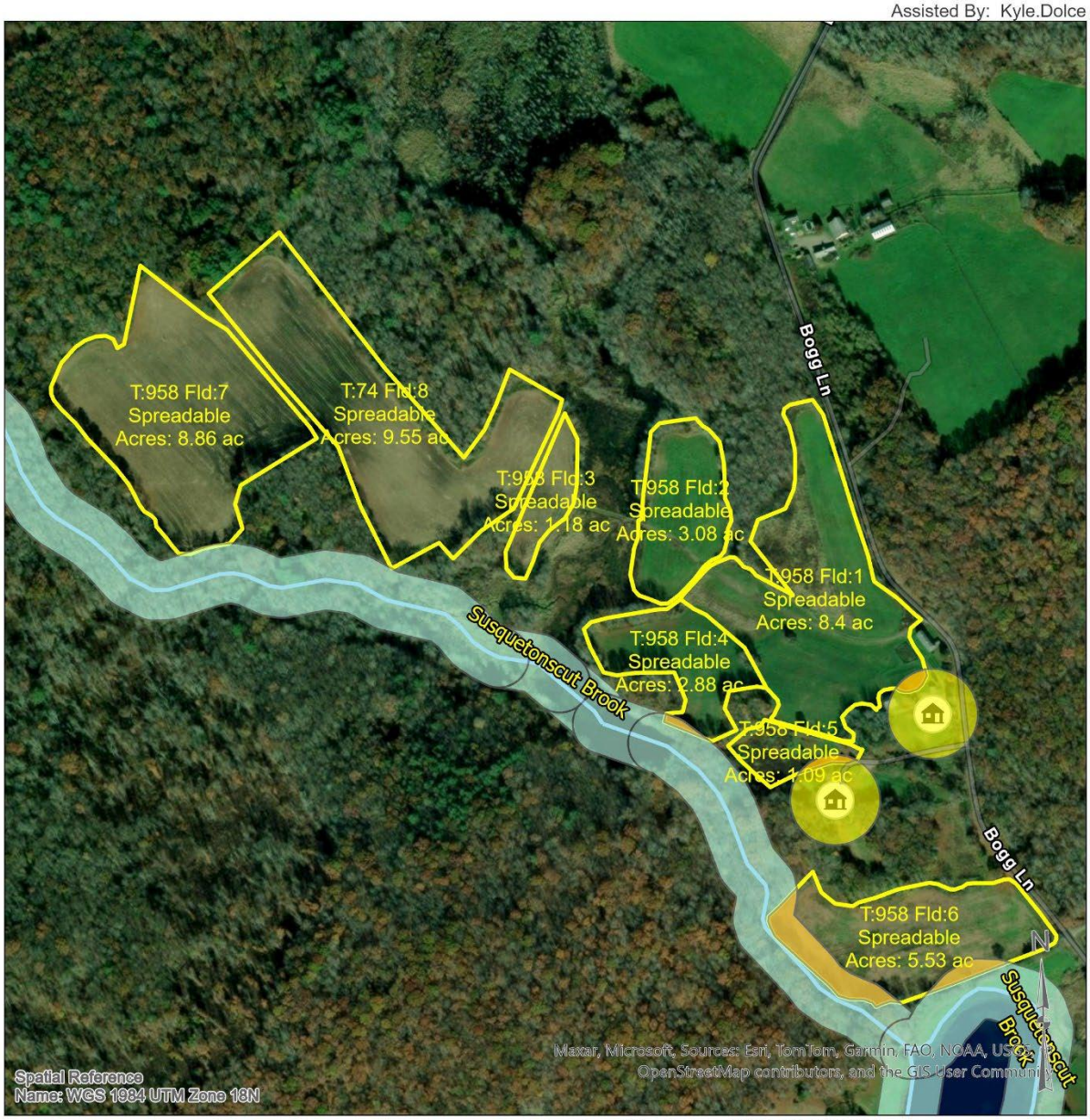
NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/12/2025

Client(s): Graywall Farm
New London, CT
F#89/T#74
F#869/T#958

HomeHouse Soil Test and Associated Fields

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 405 810 Ft

Location of Map Center: 72°12'44"W 41°40'9"N

Legend

- Buffer Area in Field
- Dwelling Buffer (150ft)
- Water Buffer (100ft)
- Dwelling
- Common Land Units (CLU)

USDA

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U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/12/2025

Client(s): Graywall Farm
New London, CT
F#2079/T#117,T#7523

Kasaceck Soil Test and Associated Fields 35ft Buffer Indicated in Green

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 280 560 Ft

Location of Map Center: 72°11'57"W 41°38'40"N

USDA

N

Legend

- Dwelling
- Common Land Units (CLU)
- Water
- Permanent Vegetated Buffer (35ft)
- Dwelling Buffer (150ft)
- Buffer Area in Field

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U.S. DEPARTMENT OF AGRICULTURE

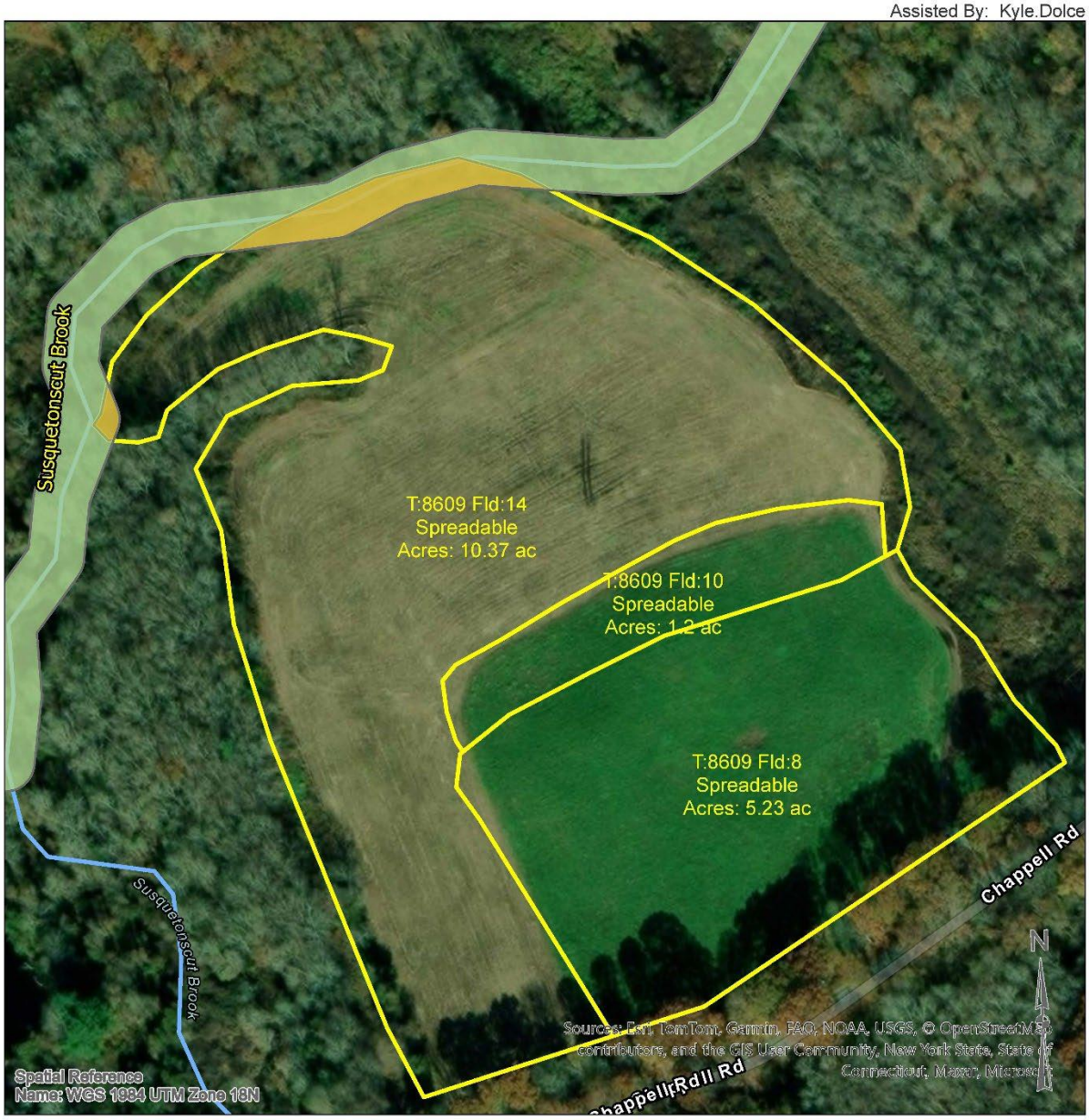
NATURAL RESOURCES CONSERVATION SERVICE

Date: 6/12/2025

Client(s): Graywall Farm
New London, CT
F#2224/T#8609

Chappell Rd Soil Test and Associated Fields 35ft Buffer Indicated in Green

Assisted By: Kyle.Dolce



Customer Folder: C:\geodata\graywall_all_clu\

0 150 300 Ft

Location of Map Center: 72°13'7"W 41°39'22"N

USDA

N

Legend

- Common Land Units (CLU)
- Permanent Vegetated Buffer (35ft)
- Buffer Area in Field
- Water

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Question 6. Field Information Table: SPREADABLE ACRES

6.1. Table identifying spreadable acres by Field

Note: Amendment to CNMP Appendix E.

Table 6 provides comparison of “spreadable acreage” against “total [field] area”. Data is exported directly from the Manure Management Planner software (MMP). Fields requiring spreading setback are identified in blue below and correlate to data in Section 5 - Table 5.

TABLE 6 Field ID	Total Area (ac)	Spread-able Area (ac)	County	Predominant Soil Type	Watershed Code	FSA Farm	FSA Tract
Scanlan	28.1	26.0	New London	284B (Paxton FSL)	011000030103	2698, 119	9167, 7532
Pool House R	11.0	10.4	New London	84B (Paxton FSL)	011000030103	120	112
Briggs Rd E	29.2	29.2	New London	45B (Woodbridge FSL)	011000030103	2183	7983
Briggs Rd W	42.0	42.0	New London	45B (Woodbridge FSL)	011000030103	2183	7679
P Swamp	14.1	14.1	New London	84B (Paxton FSL)	011000030103	413	759
SeagersSho W	5.9	5.9	Windham	45B (Woodbridge FSL)	011000020303	441	135
SeagersHou W	20.0	20.0	Windham	60B (Canton FSL)	011000020303	441	135
SeagerHouseE	20.7	20.7	Windham	60B (Canton FSL)	011000020303	441	135
SeagersSho E	26.3	26.3	Windham	45B (Woodbridge FSL)	011000020303	441	135
Floras	5.2	5.2	New London	45B (Woodbridge FSL)	011000030103	2541	8991
VillageHillW	46.8	46.8	New London	284B (Paxton FSL)	011000030101	781	574
VillageHillE	27.0	27.0	New London	84B (Paxton FSL)	011000030101	781	574
Krauss	64.2	64.2	New London	60B (Canton FSL)	011000030101	781	574
MfieldCitBack	2.3	2.3	Tolland	60C (Canton FSL)	011000020204	906	928
MfieldCitFT	12.6	11.5	Tolland	60C (Canton FSL)	011000020204	906	928
MfieldPleValley	4.4	4.4	Tolland	60C (Canton FSL)	011000020204	906	928
Benders	28.0	28.0	New London	45B (Woodbridge FSL)	011000030103	1008	73
Pultz B	29.8	29.8	New London	45B (Woodbridge FSL)	011000030101	1431	9209
Bogg Lane	34.9	31.7	New London	84D (Paxton FSL)	011000030101	1855	957
Heifers	31.1	30.8	New London	45B (Woodbridge FSL)	011000030103	2826	674
Red House 4	30.1	28.6	New London	45B (Woodbridge FSL)	011000030103	2079, 774	76, 565
HomeBarn	69.6	69.6	New London	45B (Woodbridge FSL)	011000030103	1430	7885
Pultz F	24.6	24.6	New London	84C (Paxton FSL)	011000030103	2079	688
Pool House L	8.7	8.7	New London	84B (Paxton FSL)	011000030103	2179	8555
Mark Short	20.8	19.9	New London	45B (Woodbridge FSL)	011000030103	2181	8557
Mark Long	56.2	56.2	New London	45B (Woodbridge FSL)	011000030101	2181	8557
Kick Hill L	19.6	19.6	New London	60B (Canton FSL)	011000030101	2182	9001
Kick Hill R	28.2	28.2	New London	60B (Canton FSL)	011000030103	2182	9001
Burdick	53.9	52.8	New London	84B (Paxton FSL)	011000030103	1273	7766
Briggs Road Pit	4.2	4.2	New London	45B (Woodbridge FSL)	011000030103	2183	8219
Seabury Big	106.7	103.4	New London	84B (Paxton FSL)	011000030103	2183	8219
ChappellRd	18.5	17.5	New London	60B (Canton FSL)	011000030103	2224	8609
RaffertyWoods	14.7	14.7	New London	45B (Woodbridge FSL)	011000030101	2380	8783
RaffertyHouse	22.9	22.2	New London	84B (Paxton FSL)	011000030101	2380	8783

TABLE 6 Field ID	Total Area (ac)	Spread-able Area (ac)	County	Predominant Soil Type	Watershed Code	FSA Farm	FSA Tract
Gates	21.7	21.7	New London	84B (Paxton FSL)	011000030101	2380	8783
Walden F	38.9	38.9	New London	45B (Woodbridge FSL)	011000030101	2670	9137
Walden B	57.7	57.7	New London	45B (Woodbridge FSL)	011000030101	2670	9137
Straus BR	13.6	12.9	New London	38C (Hinckley MPM)	011000030101	2730	9213
Straus BL	15.1	14.1	New London	60B (Canton FSL)	011000030101	2730	9213
Straus L	31.0	29.6	New London	38C (Hinckley MPM)	011000030101	2730	9213
HomeHouse	44.7	42.0	New London	84B (Paxton FSL)	011000030101	89	74
Kasaceck	43.9	39.5	New London	38C (Hinckley MPM)	011000030101	2079	117

Question 7. Manure Application Planning Calendar

7.1. Manure Application Planning Calendar with LEGEND:

Green = perennial crop/cover crop in field; Number = total loads of solid manure; "X" = other/liquid manure applications

Crop in field	No. indicates total loads "X" indicates other manure apps

Planning Calendars on pages 36-44 represent the plan for 2025-2029

2025-2026 Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2025 Crop (Prev. Primary Crop)	Mar '25	Apr '25	May '25	Jun '25	Jul '25	Aug '25	Sep '25	Oct '25	Nov '25	Dec '25	Jan '26	Feb '26
Scanlan	28.1	26.0	Paxton FSL (284B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Pool House R	11.0	10.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Briggs Rd E	29.2	29.2	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			43.9									
Briggs Rd W	42.0	42.0	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			63.0									
P Swamp	14.1	14.1	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
SeagersSho W	5.9	5.9	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)							8.9					
SeagersHou W	20.0	20.0	Canton FSL (60B 3-8%)	Orchardgrass (Orchardgrass)							30.1					
SeagerHouseE	20.7	20.7	Canton FSL (60B 3-8%)	Orchardgrass (Orchardgrass)							31.0					
SeagersSho E	26.3	26.3	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)							39.5					
Floras	5.2	5.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
VillageHillW	46.8	46.8	Paxton FSL (284B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
VillageHillE	27.0	27.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Krauss	64.2	64.2	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
MfieldCitBack	2.3	2.3	Canton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					

2025-2026 Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2025 Crop (Prev. Primary Crop)	Mar '25	Apr '25	May '25	Jun '25	Jul '25	Aug '25	Sep '25	Oct '25	Nov '25	Dec '25	Jan '26	Feb '26
Crop in field					*No. indicates total loads* *"X" indicates other manure apps*											
MfieldCitFT	12.6	11.5	Canton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
MfieldPleValley	4.4	4.4	Canton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Benders	28.0	27.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Pultz B	29.8	29.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Bogg Lane	34.9	31.7	Paxton FSL (84D 15-25%)	Orchardgrass (Orchardgrass)			52.4				52.4					
Heifers	31.1	30.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Red House 4	30.1	28.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
HomeBarn	69.6	69.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Pultz F	24.6	24.6	Paxton FSL (84C 8-15%)	Orchardgrass (Orchardgrass)			15.4									
Pool House L	8.7	8.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Mark Short	20.8	19.9	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)												
Mark Long	56.2	56.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X									
Kick Hill L	19.6	19.6	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Kick Hill R	28.2	28.2	Canton FSL (60B 3-8%)	Orchardgrass (Orchardgrass)							42.3					
Burdick	53.9	52.8	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X									
Briggs Road Pit	4.2	4.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Seabury Big	106.7	103.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)							X					
ChappellRd	18.5	17.5	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
RaffertyWoods	14.7	14.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X									

2025-2026 Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2025 Crop (Prev. Primary Crop)	Mar '25	Apr '25	May '25	Jun '25	Jul '25	Aug '25	Sep '25	Oct '25	Nov '25	Dec '25	Jan '26	Feb '26
Crop in field					*No. indicates total loads "X" indicates other manure apps*											
RaffertyHouse	22.9	22.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X									
Gates	21.7	21.7	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)							X					
Walden F	38.9	38.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)							X					
Walden B	57.7	57.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)							X					
Straus BR	13.6	12.9	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Straus BL	15.1	14.1	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)							X					
Straus L	31.0	29.6	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)							X					
HomeHouse	44.7	42.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)							X					
Kasaceck	43.9	39.5	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)							X					
Total	*1,229.0*	*1,201.5*					*174.7 X*				*204.2 X*					

2026-2027 Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2026 Crop (Prev. Primary Crop)	Mar '26	Apr '26	May '26	Jun '26	Jul '26	Aug '26	Sep '26	Oct '26	Nov '26	Dec '26	Jan '27	Feb '27
Crop in field					*No. indicates total loads* *"X" indicates other manure apps*											
Scanlan	28.1	26.0	Paxton FSL (284B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Pool House R	11.0	10.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Briggs Rd E	29.2	29.2	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			47.7				58.4					
Briggs Rd W	42.0	42.0	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			63.0				84.0					
P Swamp	14.1	14.1	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
SeagersSho W	5.9	5.9	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			11.0				11.9					
SeagersHou W	20.0	20.0	Canton FSL (60B 3-8%)	Orchardgrass (Orchardgrass)			40.0				40.1					
SeagerHouseE	20.7	20.7	Canton FSL (60B 3-8%)	Orchardgrass (Orchardgrass)			41.3				41.4 X					
SeagersSho E	26.3	26.3	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			52.6				X					
Floras	5.2	5.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
VillageHillW	46.8	46.8	Paxton FSL (284B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
VillageHillE	27.0	27.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Krauss	64.2	64.2	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
MfieldCitBack	2.3	2.3	Canton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
MfieldCitFT	12.6	11.5	Canton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
MfieldPleValley	4.4	4.4	Canton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Benders	28.0	27.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Pultz B	29.8	29.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Bogg Lane	34.9	31.7	Paxton FSL (84D 15-25%)	Orchardgrass (Orchardgrass)			69.8				X					

2026-2027 Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2026 Crop (Prev. Primary Crop)	Mar '26	Apr '26	May '26	Jun '26	Jul '26	Aug '26	Sep '26	Oct '26	Nov '26	Dec '26	Jan '27	Feb '27
Crop in field					*No. indicates total loads* *"X" indicates other manure apps*											
Heifers	31.1	30.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Red House 4	30.1	28.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
HomeBarn	69.6	69.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Pultz F	24.6	24.6	Paxton FSL (84C 8-15%)	Orchardgrass (Orchardgrass)			49.2				X					
Pool House L	8.7	8.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Mark Short	20.8	19.9	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			53.7				X					
Mark Long	56.2	56.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Kick Hill L	19.6	19.6	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Kick Hill R	28.2	28.2	Canton FSL (60B 3-8%)	Orchardgrass (Orchardgrass)			56.4				X					
Burdick	53.9	52.8	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Briggs Road Pit	4.2	4.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Seabury Big	106.7	103.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
ChappellRd	18.5	17.5	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
RaffertyWoods	14.7	14.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
RaffertyHouse	22.9	22.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Gates	21.7	21.7	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Walden F	38.9	38.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Walden B	57.7	57.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Straus BR	13.6	12.9	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					

2026-2027 Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2026 Crop (Prev. Primary Crop)	Mar '26	Apr '26	May '26	Jun '26	Jul '26	Aug '26	Sep '26	Oct '26	Nov '26	Dec '26	Jan '27	Feb '27
Crop in field					*No. indicates total loads* *"X" indicates other manure apps*											
Straus BL	15.1	14.1	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Straus L	31.0	29.6	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
HomeHouse	44.7	42.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Kasaceck	43.9	39.5	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Total	*1,229.0*	*1,201.5*					*484.7 X*				*235.8 X*					

2027-2028 Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2027 Crop (Prev. Primary Crop)	Mar '27	Apr '27	May '27	Jun '27	Jul '27	Aug '27	Sep '27	Oct '27	Nov '27	Dec '27	Jan '28	Feb '28
Crop in field					*No. indicates total loads "X" indicates other manure apps*											
Scanlan	28.1	26.0	Paxton FSL (284B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Pool House R	11.0	10.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Briggs Rd E	29.2	29.2	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			58.4									
Briggs Rd W	42.0	42.0	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			84.0									
P Swamp	14.1	14.1	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
SeagersSho W	5.9	5.9	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			0.1									
SeagersHou W	20.0	20.0	Canton FSL (60B 3-8%)	Orchardgrass (Orchardgrass)			0.1									
SeagerHouseE	20.7	20.7	Canton FSL (60B 3-8%)	Orchardgrass (Orchardgrass)			0.1									
SeagersSho E	26.3	26.3	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			52.6									
Floras	5.2	5.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
VillageHillW	46.8	46.8	Paxton FSL (284B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
VillageHillE	27.0	27.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Krauss	64.2	64.2	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
MfieldCitBack	2.3	2.3	Canton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
MfieldCitFT	12.6	11.5	Canton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
MfieldPleValley	4.4	4.4	Canton FSL (60C 8-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Benders	28.0	27.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Pultz B	29.8	29.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Bogg Lane	34.9	31.7	Paxton FSL (84D 15-25%)	Orchardgrass (Orchardgrass)			69.8				X					

2027-2028 Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2027 Crop (Prev. Primary Crop)	Mar '27	Apr '27	May '27	Jun '27	Jul '27	Aug '27	Sep '27	Oct '27	Nov '27	Dec '27	Jan '28	Feb '28
Crop in field					*No. indicates total loads "X" indicates other manure apps*											
Heifers	31.1	30.8	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Red House 4	30.1	28.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
HomeBarn	69.6	69.6	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Pultz F	24.6	24.6	Paxton FSL (84C 8-15%)	Orchardgrass (Orchardgrass)			49.2				X					
Pool House L	8.7	8.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Mark Short	20.8	19.9	Woodbridge FSL (45B 3-8%)	Orchardgrass (Orchardgrass)			53.7				X					
Mark Long	56.2	56.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Kick Hill L	19.6	19.6	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Kick Hill R	28.2	28.2	Canton FSL (60B 3-8%)	Orchardgrass (Orchardgrass)			56.4				X					
Burdick	53.9	52.8	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Briggs Road Pit	4.2	4.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Seabury Big	106.7	103.4	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
ChappellRd	18.5	17.5	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
RaffertyWoods	14.7	14.2	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
RaffertyHouse	22.9	22.2	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Gates	21.7	21.7	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Walden F	38.9	38.9	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Walden B	57.7	57.7	Woodbridge FSL (45B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Straus BR	13.6	12.9	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					

2027-2028 Field	Total Area (ac)	Spread. Area (ac)	Predominant Soil Type	Primary 2027 Crop (Prev. Primary Crop)	Mar '27	Apr '27	May '27	Jun '27	Jul '27	Aug '27	Sep '27	Oct '27	Nov '27	Dec '27	Jan '28	Feb '28
Crop in field					*No. indicates total loads* *"X" indicates other manure apps*											
Straus BL	15.1	14.1	Canton FSL (60B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Straus L	31.0	29.6	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
HomeHouse	44.7	42.0	Paxton FSL (84B 3-8%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Kasaceck	43.9	39.5	Hinckley MPM (38C 3-15%)	Corn for Silage, convent (Corn for Silage, convent)			X				X					
Total	*1,229.0*	*1,201.5*					*424.4 X*				*235.8 X*					

Question 8. Setback Buffers: Chappell Road Field 14, Kasaceck Field 4 and Kasaceck Field 3

8.1. Setback Explanation and updated Maps

In accordance with the Manure Setback Distances and NPDES requirements, three fields identified within Graywall Farm's operation as receiving nutrients in the form of liquid manure require **permanent vegetative buffers** of at least thirty-five (35) feet to protect water quality in adjacent Susquetonscut Brook.

Graywall Farm injects manure into Chappell Road Field 14, Kasaceck Field 4 and Kasaceck Field 3.

While a 100-foot setback is recommended when 'surface applying' manure (i.e. broadcasting on soil surface), because Graywall Farm utilizes liquid manure injection (i.e. mechanical application utilizing liquid stream placement below the soil surface), the required buffer on these fields may be reduced to 35 feet. The permanent vegetated 35-foot buffers will be maintained indefinitely.

Maps illustrating the required permanent 35-foot buffers are in this amendment as follows:

- Kasaceck Field 3 and 4: page 32
- Chappell Road Field 14: page 33