

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

Submitted to Fort Stanwix National Monument

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March 2016

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

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Executive Summary

This report was completed by Jessica Bowes, M.A., Museum Technician, under the direction of Keith Routley, Chief, Division of Cultural Resources, Fort Stanwix National Monument. It was reviewed by Ph.D. Candidate, Ashley Peles, M.A., at the University of North Carolina, Chapel Hill. I reviewed the botanical samples related to features with high research value in the museum collection. The botanical samples include wood and seeds and were collected during archeological excavations at the park. There are three precontact features, thirteen fort-era features, fifteen nineteenth-century privies, and a cleaning episode related to a privy. These features are from either the excavations conducted in the 1970s prior to the reconstruction of Fort Stanwix or those conducted in 2003 prior to the construction of the Willett Visitor's Center.

I discuss the botanicals according to excavation period since different methodologies were employed, and these differences will impact researchers' interest and the work they need to do in order to best analyze the samples. For the botanicals from the 1970s excavations, I recommend that research conducted on the samples in the 1970s be disregarded and that a qualified person reanalyze all the botanicals using proper paleoethnobotanical methodology. Once analysis is complete the samples should be rehoused to better protect the collection.

The majority of the botanicals collected during the 1970s excavations are charred, and therefore well preserved, but the archeologists did not utilize ideal methodology. While this does present some challenges to interested researchers, the collection is still very rich in data and has a lot of potential. I recommend that any analysis should be conducted by a qualified paleoethnobotanist or someone under the supervision of a qualified individual and that the materials should be rehoused once analysis is complete. The samples are protected currently, but rehousing after analysis will help further their preservation.

In contrast to the earlier excavations, most of the samples collected in 2003 are from a privy and are not charred. While the samples were processed using standard paleoethnobotanical practice, their collection methodology is still unclear. Regardless, the privy samples still hold a lot of research potential. Unfortunately, these samples are not well housed so I recommend rehousing them in order to protect them before analysis occurs. Finally, any analysis should be conducted by a qualified paleoethnobotanist or someone under the supervision of a qualified individual.

I have also compiled all of the literature related to the botanicals that may be useful for a researcher. These are located in four appendices at the end of the report and include the archeological reports, research reports (including a report on 2013 excavations not discussed here), correspondence and materials from the archeologists, and comprehensive tables with all botanical materials, not just those identified as priority. I included these materials so that researchers have access to any and all information that may help them in determining the usefulness of this collection for their research.

Introduction

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

This report is an overview of specific botanical samples from archeological excavations at Fort Stanwix National Monument that are considered high priority for their research potential. It was completed by Jessica Bowes, Museum Technician, at the direction of and supervision by Keith Routley, Chief, Division of Cultural Resources, Fort Stanwix National Monument. The botanical samples, meaning seeds, wood, and other plant structures, include samples of varying quantity and composition related to precontact contexts, the original Fort Stanwix (renamed Fort Schuyler for a time), and nineteenth-century privies. These were selected for this report because they may be of interest to archeologists and researchers who want to analyze the botanical collection. This report also provides an outline of our existing botanical collection and can inform methods related to future collection and housing strategies. The compiled methods and findings can be provided to potential researchers so that they have: (1) a better understanding of what the Fort Stanwix botanical collection has to offer; (2) a way to quickly assess if anything in the collection aligns with their research interests; and (3) fewer obstacles¹ that may prevent them from accessing the collection.

Methods: This survey required access to the ICMS catalog records, the botanical and soil samples, and all available reporting and research related to the excavation and processing of those samples. The macrobotanical remains are largely useless to researchers without knowing how they were collected, what context they came from, and how that context was analyzed. In many cases, much of the information was not linked to the samples themselves. I accessed the analyses from the different archeological excavations, when possible, in order to compile how the different units, strata, and contexts were analyzed by the archeologists. It is necessary to know what the archeologists understood a certain context to be (for example, a privy, a foundation, a trash pile) and when it is from (usually a date range) to determine the research potential of the botanical materials. This process created several problems, some of which are still unresolved. In particular, the archeologist's analysis could not be found in the printed reports for all of the contexts.

I compiled my findings in this report to create a structured representation of what I uncovered. I present the materials from two different archeological excavation events: the 1970s excavations prior to the reconstruction of the fort and the 2003 excavation prior to the construction of the Willett Center. The archeologists utilized different methodologies in the field and different methodologies for soil and botanical recovery. This period division is necessary for understanding the research potential for materials recovered during those excavations. The sections are labelled "1970s Botanicals" and "Hartgen Botanicals 2003." Within each section there is a discussion regarding the field methods, analysis, and reporting done, how the botanicals and soil are currently stored in collection storage at Fort Stanwix National Monument and recommendations for continuing to preserve the botanicals and regarding their research potential.

The Archeology: Archeological excavations at Fort Stanwix National Monument started in the 1960s and continue today. The botanicals discussed here relate to excavations in the 1970s prior to the fort's reconstruction and in the early 2000s ahead of the construction of the Marinus Willett Center for

¹ These obstacles largely relate to understanding how samples were taken and how the contexts they are a part of were interpreted, two key pieces of information necessary for conducting further macrobotanical research.

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Collections Management and Education. The majority of the fort-era botanicals were collected in the 1970s and are charred, indicating they are archeological and may relate to foodways and the environment at the time of the fort's occupation. There were several nineteenth-century privies excavated on the property during the 1970s excavations and by Hartgen Archaeological Associates Inc., in 2003 that may inform our understanding of dietary practices in the 1800s. While the privy samples are not charred, water-logged privies preserve botanicals extremely well and specifically reflect foodways (Miller 1989). In addition to the previous excavations that are the focus of this report, soil samples continue to be collected during excavations at Fort Stanwix. Botanical analysis was completed on flotation samples from excavations in 2013 (see Appendix C for the report); this analysis is not specifically discussed here but may be useful for future botanical research.

While this report focuses on samples with high research potential, it is necessary to note that there are other botanical, wood, and soil samples from archeological excavations at Fort Stanwix NM. These may relate to low priority features (such as building foundations or late nineteenth- and early twentieth century-trash pits), have limited context and interpretive information, or are not suited for botanical analysis (for a list of "soil samples" from the 1970s that are not suitable for macrobotanical analysis see Appendix A). Some of this other data may be desirable for future research but likely will need more research regarding their context. A large table with all catalog numbers prior to 2010, their descriptions, and citations for the analysis from reports, can be found in Appendix D. Excavations started in 2010 utilized a different collection strategy and methodology more in line with the recommendations here. This information is presented in a chart titled Wood, Seeds, and Soil from 2010-2013 in Appendix D.

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1970s Botanicals

Overview: During the archeological excavations at Fort Stanwix National Monument during the 1970s, National Park Service archeologists sought remains related to the occupation and structure of the original eighteenth-century fort². During their excavations they uncovered charred wood remains and structural parts of the fort and associated buildings, along with charred botanical remains. These samples may be of interest to students pursuing their masters or doctorate degrees in archeology, anthropology, ethnobotany, etc.

1970s: Field Methods and Report

When botanicals were encountered during excavations or while screening they were bagged separately in paper bags and cataloged. There is no indication in all available records that any other steps were taken for more formal recovery. This form of sampling is called “pinch sampling,” and only retains the obvious botanicals from the site while overlooking small seeds that are hard to see and those that might be further in the soil matrix (Pearsall 1989). Pinch sampling is not a preferred method for recovery and limits what can be done regarding analysis as small seeds that are not immediately visible or that can be captured in a screen are overlooked. Unfortunately, it is not known if screens were used during these excavations. The botanical remains can still provide generalized information regarding what foods and plants were used at the fort, but a more nuanced discussion of food, environment, trade, and agricultural practices is not possible.

In 1973 the College of Environmental Science and Forestry (ESF) provided some minimal analysis on the botanical samples related to the fort and recovered by the archeologists during the 1970s excavation. A copy of the original report as well as a transcribed table can be found in Appendix A. This report is a basic identification list, and while useful in understanding the types of botanicals recovered, it lacks quantitative analysis. Key missing information includes weights of original samples, an indication of how much of a sample was analyzed at ESF, the methods used for analysis, and the seed counts for the identified seeds.

An additional report was completed by this author (Jessica Bowes) in 2012 on a brief analysis of fort-era botanicals with catalog numbers 5856 and 5694. Catalog 5856 was a large bag of charred botanicals of which I identified less than 1% to mostly crop species including wheat, rye, and barley. It was recommended that this sample undergo further analysis due to high research potential. Catalog 5694 was a small bag of seeds with a possible identification of “long, thin sesame seeds.” Upon review, these were identified as spruce needles that were stored, and ultimately burned, together. This is an unusual find and further research into spruce on archeological sites was recommended. The entire report can be found in Appendix A.

² An electronic version of the report, Casemates and Cannonballs, from these excavations can be found here: http://www.nps.gov/parkhistory/online_books/archeology/14/

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1970s: Storage

The samples are housed in the collection storage in the Marinus Willett Center for Collections Management and Education. The condition of the samples in the collection is good after 40 years, but more can be done to ensure their preservation for future research. The samples of charred seeds are currently stored in paper bags and film canisters and rest in 12" x 15" Hollinger archival boxes filled to the top with other botanical material. Some of the wood samples are wrapped in tin foil and are frequently beneath other materials.

Recommendation: The following are my recommendations for the botanicals recovered during the 1970s excavations at Fort Stanwix.

- The 1970s ESF report not be utilized in informing or comparing future research.
- Future research should begin by analyzing the samples from the 1970s excavations in their totality.
 - Due to the restrictions and bias already placed on these samples by their recovery method of pinch sampling, it is recommended that the botanicals be analyzed in full, without further sub-sampling. This will maximize their interpretive potential.
 - A full analysis will include identifications for all seed and wood from all fort-era contexts, weights of the original sample, and analysis based on comparative research from other sites of the same time period. The seeds and wood do not need to be completed by the same technician or for the same research.
 - A full analysis should also be conducted on "soil samples" in the tables below. These samples are small (likely under 1 liter) and can be processed in one of two ways. They can either be floated and sorted or flotation can be skipped and the soil can be sifted through nested geological sieves (of about .5mm, 1mm, and 1.5mm size) to help facilitate analysis.
- Researchers should utilize proper paleoethnobotanical methods related to handling, identification, quantification, analysis, and final housing of these samples.
 - This includes the use of a dissecting microscope, comparative materials for identification such as printed resources and comparative collections, proper knowledge of and software for statistical analysis (such as Microsoft Excel), and complete a comprehensive report regarding their methods, findings, and interpretation.
- All of the charred fort era botanicals should be rehoused, however this is not urgent. If the samples are analyzed for future research, they should be returned either bagged or bottled and labeled by seed type. They can then be placed on trays to eliminate fracturing from pressure within the box.
 - A Fort Stanwix, NM Division of Cultural Resources staff member should be consulted regarding specific housing procedures for the materials.
 - The samples should be re-cataloged in ICMS with a catalog number for each identified seed and wood type from a sample and the report produced from the analysis should be added as supplemental information for the existing catalog records.

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FEATURE TABLES FROM THE 1970s EXCAVATIONS

The following tables offer basic information regarding the soil, seed, or wood samples from precontact, 18th-, and 19th-century features excavated during the 1970s. The tables give the feature number assigned during excavation, the original interpretation of that feature by the archeologists (including a date range when available), the associated ICMS catalog numbers, object description, location, and any site information (unit number, level, etc.). The "Site Information" column is directly from information in the ICMS record and may be long form or short form. Long form, for example, may state, "Unit 9G, Feature 18, Level 1." The short form for the same information is "9G18-1." The features are listed chronologically with the sub-designations of "Precontact," "Fort Era," and "Post-Fort Privies." When possible, tables were kept whole and not broken up between pages. Presenting the botanical materials in this way is meant to demonstrate the research potential, or lack thereof, of priority or interesting features. The broader understanding of the botanical assemblage from these excavations is discussed above. These tables offer researchers a refined view of what the botanical collection has to offer.

The objects titled "soil samples" in these tables refer to a small amount of soil (likely under 1 liter but they have not been formally measured) that was collected in the field and either placed in a paper bag or glass jar. There are some other "soil samples" from these features that were not included in these charts because they do not yield macrobotanical potential, however, they can be found in Appendix A along with photos of the samples. Both types of soil, those with macrobotanical potential and those without, are given the object name of "soil sample" in ICMS. Additionally, one object name from the precontact feature (FOST 2106) is called "flotation sample" and described in ICMS and on the original catalog card as "a flotation sample of seeds." I am unsure why these seeds were described this way since flotation as a method for botanical research is not documented as being used during these excavations. It should be assumed that these seeds were collected using the same methodology described above. Finally, there are other seeds, wood, and soil samples uncovered during the 1970s excavations (as noted in the discussion above) that are not associated with these features; this information can be found in Appendix D.

PRECONTACT FEATURES

FEATURE 21: ROCK FIRE HEARTH ca. 2500				
Catalog #	Object	Location	Description	Site Information
FOST 2106	FLOTATION SAMPLE	WC, CS, RM 134, E 40, BOX 438	A FLOTATION SAMPLE OF SEEDS	UNIT 10A, FEATURE 21, LEVEL 1

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FORT ERA FEATURES

FEATURE 18: POWDER MAGAZINE 1758 - 1774				
Catalog #	Object	Location	Description	Site Information
FOST 3280	WOOD SAMPLES	WC, CS, RM 134, F 14, BOX 479	ROOF TIMBERS--SAMPLE WOOD. THERE ARE SIX PACKETS OF SAMPLES WRAPPED IN TIN FOIL.	UNIT 9G, FEATURE 18
FOST 3407	WOOD SAMPLE	WC, CS, RM 134, M44, BOX 1196	WOOD SAMPLE.	UNIT 9G, FEATURE 18, LEVEL 1
FOST 17571	WOOD SAMPLE	WC, CS, RM 134, D 29, BOX 333	BURNED	9B18-1
FOST 17574	WOOD SAMPLE	WC, CS, RM 134, D 29, BOX 333		9G18-1
FOST 17576	WOOD SAMPLE	WC, CS, RM 134, D 29, BOX 333		9G18-4

FEATURE 55: SALLYPORT 1758 - 1781				
Catalog #	Object	Location	Description	Site Information
FOST 17614	WOOD SAMPLES	WC, CS, RM 134, D 29, BOX 333		19D61-2

FEATURE 2: FIRE HEARTH AND ASH LENS, POST 1764				
Catalog #	Object	Location	Description	Site Information
FOST 17499	WOOD SAMPLES	WC, CS, RM 134, D 27, BOX 330		4A2-1

FEATURE 3: CLAY-LINED CELLAR 1764 - 1781				
Catalog #	Object	Location	Description	Site Information
FOST 17487	WOOD SAMPLES	WC, CS, RM 134, D 27, BOX 330		3B3-1
FOST 17489	WOOD SAMPLES	WC, CS, RM 134, D 27, BOX 330	CHARRED WOOD	3B3-3

FEATURE 10: FIREPLACE 1764 - 1781				
Catalog #	Object	Location	Description	Site Information
FOST 17546	WOOD SAMPLE	WC, CS, RM 134, D 28, BOX 331		7A10-2

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FEATURE 30: FIREPLACE 1764-1781				
Catalog #	Object	Location	Description	Site Information
FOST 2757	WOOD	WC, CS, RM 134, F 13, BOX 478	A ROUND PIECE OF WOOD WHICH MIGHT HAVE BEEN USED AS A PLUG.	UNIT 7A, FEATURE 30, LEVEL 2
FOST 17548	WOOD SAMPLE	WC, CS, RM 134, D 28, BOX 332	Not Provided	7A30-2

FEATURE 52: WOOD-LINED CELLAR 1764-1781				
Catalog #	Object	Location	Description	Site Information
FOST 4448	WOOD	WC, CS, RM 134, F 13, BOX 478, F 18, BOX 484	A SAMPLE OF WOODEN SPLINTERS.	UNIT 15A, FEATURE 52, LEVEL 3
FOST 7687	WOOD SAMPLE	WC, CS, RM 134, F 19, BOX 486	WOOD SAMPLE FROM WEST WALL OF 15A52 CELLAR. SENT FOR ANALYSIS.	UNIT 15A, FEATURE 52
FOST 17591	WOOD SAMPLE	WC, CS, RM 134, D 29, BOX 333	BURNED	15A52-3
FOST 17592	WOOD SAMPLE	WC, CS, RM 134, D 29, BOX 333		15A52-4

FEATURE 56: WOOD-LINED CELLAR 1764-1781				
Catalog #	Object	Location	Description	Site Information
FOST 5444	SEEDS / GRAIN	WC, CS, RM 134, F 20, BOX 488	FOUR JARS OF SEED/GRAIN FOUND IN THE CELLAR OF 18A (ONE OF THE CELLARS). THE SEED IS ALL BLACK IN COLOR AND ARE ALL SIMILAR IN SHAPE. NATIONAL CATALOG NOTE 08/03: SEE DRAWING ON CATALOG RECORD.	UNIT 18A, FEATURE 56, LEVEL 3
FOST 5464	WOOD SAMPLE	WC, CS, RM 134, F 13, BOX 478, F 18, BOX 484	CHARED FRAGMENTS OF WOOD; SAMPLES FROM PIT WALL. LARGEST PIECE: 9" X 4" X 1"	UNIT 18A, FEATURE 56
FOST 5694	SEEDS	WC, CS, RM 134, F 20, BOX 488	BOTTLE OF NOW BLACK SEEDS; SOME LOOK LIKE BARLEY SEEDS; MOST ARE LONGER AND THINNER THAN SESAME SEEDS.	UNIT 18A, FEATURE 56, LEVEL 3
FOST 5856	SEEDS	WC, CS, RM 134, F 20, BOX 488	NOW BLACK SEEDS, SUGGESTED TO BE OAT, WHEAT OR BARLEY SEEDS SEEDS FROM AREAS 1, 2, 3, & 4 SEPARATED FROM ONE ANOTHER.	UNIT 18A, FEATURE 56, LEVEL 3

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FEATURE 69: CLAY-LINED CELLAR 1764 - 1781				
Catalog #	Object	Location	Description	Site Information
FOST 7642	SOIL SAMPLE	WC, CS, RM 134, F 45, BOX 530	A SAMPLE OF CHARCOAL FROM THE FEATURE.	UNIT 15C, FEATURE 69, LEVEL 2
FOST 17594	WOOD SAMPLE	WC, CS, RM 134, D 29, BOX 333		15C69-1
FOST 17662	SEED	WC, CS, RM 134, D 29, BOX 334	SUNFLOWER - 1	15C69-3

FEATURE 72: CLAY-LINED CELLAR 1764 - 1781				
Catalog #	Object	Location	Description	Site Information
FOST 7688	WOOD SAMPLE	WC, CS, RM 134, F 19, BOX 486	WOOD SAMPLE FROM AGAINST WEST WALL OF PIT IN 22A73-2. SENT FOR ANALYSIS.	UNIT 22A, FEATURE 72, LEVEL 2

FEATURE 73: PIT, POSSIBLE PRIVY 1776-1781				
Catalog #	Object	Location	Description	Site Information
FOST 7722	WOOD SAMPLE	WC, CS, RM 134, F 18, BOX 485	PIECE OF WOOD FROM THE FEATURE 15" X 4" X 2 1/2"	UNIT 22A, FEATURE 73, LEVEL 3

FEATURE 33: PASSAGEWAY OF NORTHWEST BOMBPROOF, 1777 - 1781				
Catalog #	Object	Location	Description	Site Information
FOST 17561	WOOD SAMPLE	WC, CS, RM 134, D 28, BOX 332	BURNED SEE ALSO CAT #7692 AND #7694 TSUGA CANADENSIS (EASTERN HEMLOCK)	8A33-3 (NW BOMBPROOF)

FEATURE 38: NORTHWEST BOMBPROOF 1777-1781				
Catalog #	Object	Location	Description	Site Information
FOST 3170	WOOD SAMPLE	WC, CS, RM 134, F 18, BOX 484	WOOD SAMPLE FROM THE PLANT ROOF CENTER OF BOMB PROOF.	UNIT 8A, FEATURE 38, LEVEL 1
FOST 3171	WOOD SAMPLE	WC, CS, RM 134, F 18, BOX 484	WOOD SAMPLE FROM THE FALLEN UPRIGHT ON THE WEST WALL OF THE BOMBPROOF.	UNIT 8A, FEATURE 38, LEVEL 1
FOST 4436	WOOD	WC, CS, RM 134, F 18, BOX 484	WOOD PIECES FROM THE BOMBPROOF.	UNIT 8A, FEATURE 38, LEVEL 3
FOST 4437	WOOD PIECES	WC, CS, RM 134, F 13, BOX 478, F 18, BOX 484	WOOD FRAGMENTS FROM THE BOMBPROOF.	UNIT 8A, FEATURE 38, LEVEL 3
FOST 4438	WOOD PLANK	WC, CS, RM 134, F 13, BOX 478, F 18, BOX 484	THE SEVENTHT FLOOR BOARD OF THE BOMBPROOF.	UNIT 8A, FEATURE 38, LEVEL 3

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POST-FORT PRIVIES

FEATURE 71: PRIVY 1800 - 1825				
Catalog #	Object	Location	Description	Site Information
FOST 7419	SEEDS	WC, CS, RM 134, F 20, BOX 488	A SMALL SEED SAMPLE.	UNIT 4D, FEATURE 71, LEVEL 1
FOST 7421	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	A SEED SAMPLE	UNIT 4D, FEATURE 71, LEVEL 1

FEATURE 77: PRIVY 1800 - 1825				
Catalog #	Object	Location	Description	Site Information
FOST 7914	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	SEED SAMPLE FROM THE FEATURE, APPEAR TO BE SOME SORT OF BERRY SEEDS, PERHAPS STRAWBERRY SEEDS.	UNIT 4D, FEATURE 77, LEVEL 1
FOST 7923	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	SEED SAMPLE FROM THE FEATURE, LOOK LIKE SOME SORT OF BERRY SEEDS. (SEEM TO BE THE SAME AS SEEDS FROM LEVEL 1, CAT. #7914).	UNIT 4D, FEATURE 77, LEVEL 2
FOST 7955	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	SEED SAMPLE FROM THE FEATURE; SEEDS LOOKS LIKE SMALL CRESCENTS	UNIT 4D, FEATURE 77, LEVEL 1

FEATURE 66: PRIVY 1825 - 1851				
Catalog #	Object	Location	Description	Site Information
FOST 6401	SEEDS	WC, CS, RM 134, F 20, BOX 488	TWO CANNISTERS OF SEED SAMPLES FROM THE PRIVY #66	UNIT 4D, FEATURE 66, LEVEL 1
FOST 6427	SEEDS	WC, CS, RM 134, F 20, BOX 488	SMALL TINY SEEDS; SEED SAMPLE FROM THE PRIVY.	UNIT 4D, FEATURE 66, LEVEL 2
FOST 6465	SEEDS	WC, CS, RM 134, F 20, BOX 488	SEED SAMPLE FROM THE PRIVY.	UNIT 4D, FEATURE 66, LEVEL 2
FOST 21063	SEEDS	WC, CS, RM 134, D 29, BOX 334	COFFEE BEAN	4D66-1
FOST 17503	WOOD SAMPLES	WC, CS, RM 134, D 27, BOX 330		4D66-2

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FEATURE 1: PRIVY 1828-1890				
Catalog #	Object	Location	Description	Site Information
FOST 741	WOOD SAMPLES	WC, CS, RM 134, F 13, BOX 478	A FEW SAMPLES OF WOOD FROM THE FILL.	UNIT 4A; LEVEL 1
FOST 787	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	A SMALL SEED SAMPLE.	UNIT 4A; FEATURE 1, LEVELS 10-16
FOST 792	SEED SAMPLE	WC, CS, RM 134, F 13, BOX 478	A LARGE SEED SAMPLE.	UNIT 4A; FEATURE 1, LEVELS 10-16
FOST 799	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	A LARGE SEED SAMPLE	UNIT 4A; FEATURE 1, LEVEL 14.
FOST 807	SOIL SAMPLE	WC, CS, RM 134, F 45, BOX 530	A SOIL SAMPLE FROM A CHAMBER POT.	UNIT 4A; FEATURE 1, LEVEL 14
FOST 823	WOODEN PLANKS	WC, CS, RM 134, M45, BOX 1198	ONE BAG OF ASSOCIATED SOIL AND SEVEN PLANKS OF VARIOUS DIMENSIONS WHICH PROBABLY FELL INTO THE PRIVY FROM THE FLOOR OR TOILET SEAT. NONE APPEAR TO BE SHAPED.	UNIT 4A; FEATURE 1; LEVEL 14.
FOST 991	SOIL SAMPLE	WC, CS, RM 134, F 20, BOX 488	A LARGE SOIL SAMPLE	UNIT 4A; FEATURE 1, LEVEL 15.
FOST 992	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	4 SEED SAMPLES	UNIT 4A; FEATURE 1, LEVEL 15.
FOST 993	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	A SMALL SEED SAMPLE FROM A DARK GREEN BEER BOTTLE.	UNIT 4A; FEATURE 1, LEVEL 15.
FOST 994	SEED SAMPLE AND CORK	WC, CS, RM 134, F 20, BOX 488	A SMALL SEED SAMPLE AND A CORK FROM A DARK GREEN BEER BOTTLE.	UNIT 4A; FEATURE 1, LEVEL 15.
FOST 997	SOIL SAMPLE	WC, CS, RM 134, F 45, BOX 530	A SAMPLE OF SOIL FROM A LIGHT BLUE RECTANGULAR BOTTLE.	UNIT 4A; FEATURE 1, LEVEL 15.
FOST 998	SOIL SAMPLE	WC, CS, RM 134, F 45, BOX 530	A SOIL SAMPLE FROM A STONEWARE BOTTLE WITHOUT A NECK.	UNIT 4A; FEATURE 1, LEVEL 15.
FOST 999	SOIL SAMPLE	WC, CS, RM 134, E 34, BOX 429	A SOIL SAMPLE TAKEN 8.0 FEET FROM THE SURFACE.	UNIT 4A; FEATURE 1, LEVEL 15.
FOST 17647	SEED	WC, CS, RM 134, D 29, BOX 334	GRAPE - 1	4A1-14
FOST 17498	WOOD SAMPLES	WC, CS, RM 134, D 27, BOX 330		4A1-15
FOST 17648	SEEDS	WC, CS, RM 134, D 29, BOX 334	GRAPE - 7, COFFEE BEAN - 2	4A1-15

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FEATURE 39: PRIVY 1830 - 1850				
Catalog #	Object	Location	Description	Site Information
	SEED SAMPLES	WC, CS, RM 134, F 20, BOX 488	THREE FILM CANISTERS WITH SEED SAMPLES NO MEASUREMENTS	UNIT 8A, FEATURE 39, LEVEL 2

FEATURE 8: PRIVY 1839 - 1860				
Catalog #	Object	Location	Description	Site Information
FOST 1019	SEED SAMPLE	WC, CS, RM 134, F 13, BOX 478	A SMALL SEED SAMPLE.	UNIT 6A; FEATURE 8; DISTURBED AREA.
FOST 1021	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	A SMALL SAMPLE OF SEEDS.	UNIT 6A; FEATURE 8; DISTURBED AREA.
FOST 1054	2 SEED SAMPLES	WC, CS, RM 134, F 20, BOX 488	TWO SMALL SEED SAMPLES.	UNIT 6A; FEATURE 8; LEVEL 2.
FOST 1141	SEED SAMPLES	WC, CS, RM 134, F 20, BOX 488	DISCREPANCY: TWO SMALL SEED SAMPLES. NOTE: POSSIBLE ALTERNATE LOCATION FOR THESE ITEMS, NOTED IN THE LOCATION FIELD. (K. ROBINSON, 7/26/04)	UNIT 6A; FEATURE 8, LEVEL 3
FOST 1245	SEED SAMPLES	WC, CS, RM 134, F 20, BOX 488	DISCREPANCY: TWO SMALL SEED SAMPLES. NOTE: THIS RECORD IS NOT ON THE 1990S OR FRACE SHELF LISTS AND ACCORDING TO THE FRACE LIST, "NUMBERS REQUIRING SPECIAL ATTENTION," IT MAY BE MISSING. (K. ROBINSON, 7/29/04)	UNIT 6A; FEATURE 8, LEVEL 5.
FOST 17651	SEEDS	WC, CS, RM 134, D 29, BOX 334	GRAPE - 4	6A8-0
FOST 20586	SOIL SAMPLE	WC, CS, RM 134, E 03, BOX 378		6A8-1
FOST 17652	SEEDS	WC, CS, RM 134, D 29, BOX 334	POSSIBLE GRAPE - 7	6A8-2
FOST 21040	WOOD SAMPLES	WC, CS, RM 134, D 29, BOX 334		6A8-3
FOST 17529	WOOD SAMPLE	WC, CS, RM 134, D 28, BOX 331		6A8-4
FOST 21041	WOOD SAMPLE	WC, CS, RM 134, D 29, BOX 334		6A8-4
FOST 17654	SEEDS	WC, CS, RM 134, D 29, BOX 334	GRAPE - 2, COFFEE BEAN - 2, INDETERMINATE - 1	6A8-5

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FOST 21042	WOOD SAMPLE	WC, CS, RM 134, D 29, BOX 334		6A8-5
FOST 21064	SEEDS	WC, CS, RM 134, D 29, BOX 334	INDETERMINATE	6A8-5
FOST 21506	SEEDS	WC, CS, RM 134, E 13, BOX 399	GRAPE - 1, INDETERMINATE - 191 FOUND WITH CAT #12504	6A8-5

FEATURE 9: PRIVY 1839-1900				
Catalog #	Object	Location	Description	Site Information
FOST 1355	SEEDS	WC, CS, RM 134, F 20, BOX 488	SEEDS	UNIT 2C; FEATURE 9, BACKFILL
FOST 1770	SEEDS	WC, CS, RM 134, F 20, BOX 488	SEED SAMPLE	UNIT 2C, FEATURE 9, LEVEL 9
FOST 1785	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	A SAMPLE OF SEEDS.	UNIT 2C, FEATURE 9, LEVEL 10
FOST 1790	SOIL SAMPLE	WC, CS, RM 134, E 40, BOX 438	SOIL SAMPLE	UNIT 2C, FEATURE 9, LEVEL 10
FOST 1791	SOIL SAMPLE	WC, CS, RM 134, E 40, BOX 438	SOIL SAMPLE BELIEVED TO BE FROM THE INSIDE OF A JAR.	UNIT 2C, FEATURE 9, LEVEL 11
FOST 1800	SEEDS	WC, CS, RM 134, F 20, BOX 488	A SEED SAMPLE	UNIT 2C, FEATURE 9, LEVEL 11
FOST 1809	SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	A SAMPLE OF SEEDS	UNIT 2C, FEATURE 9 , LEVEL 11
FOST 17478	WOOD SAMPLES	WC, CS, RM 134, D 26, BOX 328		2C9-0
FOST 17479	WOOD SAMPLES	WC, CS, RM 134, D 26, BOX 328		2C9-4

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FEATURE 5: PRIVY 1841-1870				
Catalog #	Object	Location	Description	Site Information
FOST 1350	TWO SEED SAMPLES	WC, CS, RM 134, F 20, BOX 488	TWO SMALL SEED SAMPLES.	UNIT 2B; FEATURE 5, LEVELS 3-6
FOST 17471	WOOD SAMPLES	WC, CS, RM 134, D 26, BOX 328		2B5-3-6
FOST 17472	WOOD SAMPLE	WC, CS, RM 134, D 26, BOX 328		2B5-7
FOST 21059	SEEDS	WC, CS, RM 134, D 29, BOX 334	GRAPE - 22, COFFEE BEAN - 1	2B5-7
FOST 21060	SEED	WC, CS, RM 134, D 29, BOX 334	GRAPE	2B5-8
FOST 21509	SEEDS	WC, CS, RM 134, E 13, BOX 399	INDETERMINATE FOUND WITH CAT #12506	2B5-8
FOST 17474	WOOD SAMPLE	WC, CS, RM 134, D 26, BOX 328	CHARRED WOOD	2B5-9
FOST 17645	SEED	WC, CS, RM 134, D 29, BOX 334	GRAPE - 1	2B5-9
FOST 21062	SEEDS	WC, CS, RM 134, D 29, BOX 334	SUNFLOWER	2B5-9
FOST 615	COFFEE BEANS	WC, CS, RM 134, F 20, BOX 488	A SMALL QUANTITY OF COFFEE BEANS. NOTE: FOR A MORE SPECIFIC BREAKDOWN OF THE CLASSIFICATION, OTHER PLANT MATERIALS: SEED. (K. ROBINSON, 7/12/04)	UNIT 2B; FEATURE 5; LEVEL 7.
FOST 697	3 SEED SAMPLE	WC, CS, RM 134, F 20, BOX 488	3 SMALL SEED SAMPLES.	UNIT 2B; FEATURE 5, LEVEL 8

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FEATURE 37: PRIVY 1850-1870				
Catalog #	Object	Location	Description	Site Information
FOST 3639	SEEDS	WC, CS, RM 134, F 20, BOX 488	EIGHT VIALS OF SEEDS FOUND IN A PRIVY, ONE VIAL HOLDS COFFEE BEANS.	UNIT 8X, FEATURE 37, LEVEL 7
FOST 17656	SEEDS	WC, CS, RM 134, D 29, BOX 334	GRAPE - 1, INDETERMINATE - 1	8C37-6
FOST 21066	SEEDS	WC, CS, RM 134, D 29, BOX 334	GRAPE	8C37-6
FOST 17566	WOOD SAMPLES	WC, CS, RM 134, D 28, BOX 332	BURNED	8C37-7
FOST 17658	SEEDS	WC, CS, RM 134, D 29, BOX 334	GRAPE - 3, COFFEE BEAN - 13, INDETERMINATE - 1	8C37-7
FOST 21067	SEEDS	WC, CS, RM 134, D 29, BOX 334	GRAPE - 9, COFFEE BEAN - 3	8C37-7

FEATURE 65: PRIVY 1850 - 1870				
Catalog #	Object	Location	Description	Site Information
FOST 6076	SEEDS	WC, CS, RM 134, F 20, BOX 488	TWO CANNISTERS OF VERY SMALL BROWN SEEDS THAT APPEAR TO HAVE SMALL PORES IN THEM. SO FAR UNDETERMINED TYPE.	UNIT 4D, FEATURE 65, LEVEL 3

FEATURE 23: PRIVY 1860 - 1874				
Catalog #	Object	Location	Description	Site Information
FOST 2834	SOIL SAMPLE	WC, CS, RM 134, E 34, BOX 429	HANDFULL OF A WHITE MORTAR LIKE SUBSTANCE, SOIL SAMPLE.	UNIT 6A, FEATURE 23, LEVEL 7
FOST 2835	SOIL WITH PARTICLES OF EGGSHELL	WC, CS, RM 134, F 18, BOX 485	SMALL SAMPLE OF SOIL WITH EGGSHELL.	UNIT 6A, FEATURE 23, LEVEL 7
FOST 21065	SEEDS	WC, CS, RM 134, D 29, BOX 334	GRAPE	6A23-7

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FEATURE 45: PRIVY 1870-1890				
Catalog #	Object	Location	Description	Site Information
FOST 4003	SEED	WC, CS, RM 134, F 18, BOX 485, F 20, BOX 488	FIVE VIALS OF SEED SAMPLES.	UNIT 3E, FEATURE 45, LEVEL 6
FOST 4073	WOOD	WC, CS, RM 134, F 13, BOX 478	A PIECE OF WOOD WITH CORROGATED ROOFING.	UNIT 3E, FEATURE 45, LEVEL 6
FOST 4076	SEED	WC, CS, RM 134, E 34, BOX 429	SOME OBJECT THAT IS UNIDENTIFIED BUT LOOKS LIKE A DRIED SEED.	UNIT 3E, FEATURE 45, LEVEL 6
FOST 17492	WOOD SAMPLES	WC, CS, RM 134, D 27, BOX 330	Not Provided	3E45-4
FOST 21036	WOOD SAMPLE	WC, CS, RM 134, D 29, BOX 334	METAL ATTACHED	3E45-6

FEATURE 59: PRIVY 1870 - 1910				
Catalog #	Object	Location	Description	Site Information
FOST 5940	SEEDS	WC, CS, RM 134, F 20, BOX 488	ONE CANNISTER OF TINY INDISTINGUISHABLES SEEDS. ONE CANNISTER OF 5 SEEDS WHICH APPEAR TO BE APPLE SEEDS OR CORN KERNELS. THESE SEEDS WERE FOUND ON A PIECE OF CLOTH.	UNIT 4E, FEATURE 59, LEVEL 4

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FEATURE 26: PRIVY 1890-1930				
Catalog #	Object	Location	Description	Site Information
FOST 3944	SEEDS	WC, CS, RM 134, F 20, BOX 488	SAMPLING OF SEEDS FROM THE PRIVY.	UNIT 3E, FEATURE 26, LEVEL 2
FOST 3947	SEED	WC, CS, RM 134, F 20, BOX 488	PEACH SEED.	UNIT 3E, FEATURE 26, LEVEL 2
FOST 3955	SEED	WC, CS, RM 134, F 20, BOX 488	ONE SEED OF A FRUIT, SOMETHING LIKE A PLUM SEED.	UNIT 3E, FEATURE 26, LEVEL 2
FOST 3957	SEEDS	WC, CS, RM 134, F 20, BOX 488	A SAMPLE OF SEEDS FROM THE PRIVY.	UNIT 3E, FEATURE 26, LEVEL 2
FOST 3958	SEEDS	WC, CS, RM 134, F 20, BOX 488	TWO PEACH SEEDS FOUND IN PRIVY.	UNIT 3E, FEATURE 26, LEVEL 2
FOST 3960	SEEDS	WC, CS, RM 134, F 20, BOX 488	SEEDS.	UNIT 3E, FEATURE 26, LEVEL 2
FOST 4275	PEACH SEED	WC, CS, RM 134, F 20, BOX 488	PEACH SEED FROM PRIVY.	UNIT 3E, FEATURE 26, LEVEL 2
FOST 4296	SEEDS	WC, CS, RM 134, F 20, BOX 488	A GROUP OF SIX WATERMELON, PUMPKIN-LIKE SEEDS.	UNIT 3E, FEATURE 26, LEVEL 6
FOST 21034	WOOD SAMPLES	WC, CS, RM 134, D 29, BOX 334		3E26-1

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Hartgen Botanicals 2003

Overview: In 2003 Hartgen Archeological Associates, Inc. (HAA) was hired to excavate areas impacted by the construction of the Willett Center. During their excavations they encountered numerous features including a hotel privy (referred to as a large communal privy in the catalog records) and privy cleanout area. They took several soil samples which were floated and sent for pollen and parasite analysis. The archeological report is included here in Appendix B, and Chapter 3 in the Hartgen report discusses foodways related to faunal and some of the pollen and parasite analysis. The appendix for the Hartgen report also has the original report for the pollen and parasite analysis by Dr. Karl Reinhard. These samples may be of interest to professional archeologists, paleoethnobotanists, and students pursuing their masters or doctorate degrees in archeology, anthropology, ethnobotany, etc.

Hartgen: Field Methods

While there is no information regarding a sampling strategy during these excavations, it seems they were only taken from privies and features related to privies. Soil samples were taken in the field; a portion of the soil was floated for macrobotanicals and a portion was sent for pollen and parasite analysis. The remainder of the soil that was not processed any further is in the museum collection and is stored in plastic bags cataloged as “soil sample”.³ It is likely that remaining soil was saved for the possibility of continued processing for different types of analyses. A full table of these samples, their associated catalog numbers, and their pre-flotation weight is in Appendix B. I address these samples in the recommendations section below.

The following description regarding the flotation is paraphrased from a document emailed to me from Scott Stull, Ph.D., in October of 2015. This information was not included in the final report and can be found in its entirety in Appendix B⁴. The soil samples were floated using a tank designed after the SMAP system (Pearsall, 2000: 11-97). The machine was constructed out of a 32 gallon plastic garbage can with a sump pump inside. A hose connected to the pump fed water into a smaller plastic drum with PVC piping with holes drilled in it. Water moved up and out of the holes, creating the environment for flotation. The light fraction flowed up and out the tank and was captured in a separate bucket with, “nine layers of tulle,” while the heavy fraction was captured in a separate bucket placed on top of the PVC pipes before the soil was added.

Hartgen conducted a poppy seed recovery rate test with their soil samples (Pearsall, 2000: 93-96), with a 67% recovery rate. Since the rate is ideally above 90%, the low recovery rate suggests a high possibility of seeds being encountered in the heavy fraction. The samples were dried, weighed, and rebagged. Some samples were sent for parasite and pollen analysis (results in Appendix B). A sub sample of two flotation samples were sorted by the flotation technician, likely Hartgen employee Neni Isaac, whose

³ This is different from the “soil samples” from the 1970s. The Hartgen soil samples refer to formal samples taken in the field with the intention of specialized analysis.

⁴ Also included in Appendix B are two charts emailed to me by Scott Stull with a breakdown of the weight of each flotation sample and its provenience as well as a table with the data from the flotation technician’s sorting, including the seed identification and count.

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credentials are not identified. Some of the material (coal and other plant parts) were noted but not sorted. In other words, the sample method, low rate of recovery, and work completed by the flotation technician, do not amount to reliable and informative data.

Hartgen: Analysis

After briefly looking through the samples it is evident that, while some were sorted by a flotation technician, many identified samples are comingled with seeds not of the same type in bags labelled with just one seed name. Furthermore, not all of the soil was sorted and in remaining samples (called “remaining light fraction” and “remaining heavy fraction” in the catalog record), numerous other seeds, bone, and small objects are present.

Hartgen: Storage

Currently, the samples are stored in collections storage at the Marinus Willett Center for Collections Management and Education. They are individual plastic bags labeled either by their identification, such as *Rubus* sp., “soil sample,” and “flotation sample.”⁵ These individual bags are nested in larger gallon bags and are stored in over-full 12” x 15” Hollinger archival boxes alongside other material types which may be causing damage to the fragile botanical remains⁶. Usually privy samples are excavated from a waterlogged context and are therefore stored suspended in alcohol and refrigerated. This helps preserves the botanicals from any damage that may occur from drying them out. It is unclear from the archaeological report if the privy excavated in 2003 was waterlogged. Allowing the botanicals to dry so they can be stored in bags may have introduced further fragmentation of the botanicals, but it is impossible to know for certain.

Recommendation: I recommend the following steps for the Hartgen botanicals.

- The remaining soil labelled as “soil sample” should be floated and processed for macrobotanical analysis. Until that can happen the soil should remain stored in bags in collection storage.
- The initial botanical identifications by the flotation technician should be disregarded.
- The samples should be reanalyzed in their entirety and new analyses conducted.
 - This means all separated and “identified” samples will have to be identified and properly sorted. Furthermore, the remaining unsorted heavy and light fractions should be fully sorted and all botanical, faunal, and material culture should be identified and cataloged.
 - The new analysis will have implications for catalog numbers. The identified seeds were given their own catalog number, despite some of those identifications being inaccurate and incomplete, and full analysis will produce a substantial amount of new data. I

⁵ Several objects that were pulled from these samples were given the object name of “flotation sample” in ICMS, which is incorrect based on the Northeast Region Archeology Program (NRAP) guidelines. The majority of these were changed to reflect the correct object name (personal object, chipped stone, etc.) with the reason for the change noted in ICMS, except for 6 final entries that are described as “unidentified red bodied earthenware” but that have labels of “brick” in the object bag. It is unclear what the object name should be changed to.

⁶ Several of the “soil samples” ICMS catalog record note the presence of egg shell, which is particularly fragile and caution should be taken when handling these bags.

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recommend that these particular items get re-cataloged once they are analyzed by a researcher.

- Researchers should utilize proper paleoethnobotanical methods related to handling, identification, quantification, interpretation, and final housing of these samples.
 - This includes the use of a dissecting microscope, comparative materials for identification such as printed resources and comparative collections, proper knowledge of and software for statistical analysis (such as Microsoft Excel), and complete a comprehensive report regarding their methods, findings, and interpretation⁷.
- The samples should be rehoused immediately, regardless of future plans for analysis.
 - This will enable the collection to be accessed by future researchers and for the data to remain intact. In the very least they may remain in their original bags but be placed on trays to eliminate fracturing from pressure within the bags and boxes.
 - If the samples are subject to further research a Fort Stanwix, NM Division of Cultural Resources staff member should be consulted regarding specific housing procedures for the materials.

⁷ MA and PhD students should be under the guidance of a qualified professional while utilizing the collection.

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FEATURE TABLES FROM THE HARTGEN ARCHEOLOGICAL ASSOCIATES, INC 2003

The following tables offer basic information regarding the soil, seed, or wood samples from features uncovered during the excavations from the early 2000s by Hartgen Archaeological Associates, Inc. in preparation for the construction of the Willett Visitor Center. The tables give the feature number assigned during the excavation, the original interpretation of that feature, the associated ICMS catalog numbers, object description, location, documented site information (unit number, level, etc.), and a TPQ (*terminus post quem*) when it could be located from the report. The “Site Information,” “Within Site,” “Field Bag Numbers Assigned During Excavation,” and “Field Specimen #, Finding Aids” columns are from information in the ICMS record. The column “Interpretation” gives the TPQ year for the stratum as it was presented in the Hartgen report. The features are listed chronologically with the sub-designations of “Precontact” and “Post-Fort Privies and Privy-Related Features.” When possible, tables were kept whole and not broken up between pages. There are other seed, wood, and soil samples that do not fall into these categories, but the information can be found in Appendix D.

The presentation of the botanical materials in this table is meant to demonstrate the research potential of interesting features. The broader understanding of the botanical assemblage from these excavations is discussed above. These tables offer researchers a refined view of what the botanical collection has to offer. Finally, dates could not be found for all the features, or components of a feature. This means the interpretation field for some of the objects is blank, despite knowing more broadly how the feature, or other components of the feature, were interpreted. Note: Samples were given “field bag” numbers when collected during excavation. Eleven field bag numbers and the associated weight of the sample can be found on a chart provided by Scott Stull, in Appendix B. Unfortunately, not all of the field bag numbers are in this chart, and there is missing information regarding the weight or volume of these samples. To address this I compiled a list of soil samples with their weights and their associated catalog numbers (discussed above) including the light fraction, heavy fraction, wood, and seeds. This can be found in Appendix B.

PRECONTACT FEATURES

FEATURE 67: PRECONTACT HEARTH IN UNIT 19						
Catalog #	Object, Object(NOM)	Location	Description	Within Site	Field Specimen #, Finding Aids	
FOST 27977	SOIL SAMPLE	WC, CS, RM 134, M 24, BOX 1163	SOIL-SAMPLE	AREA 2, FEATURE 67, UNIT 19, CONTEXT 602	FIELD BAG # 669, 673	

FEATURE 68: PRECONTACT HEARTH IN UNIT 19						
Catalog #	Object, Object(NOM)	Location	Description	Within Site	Field Specimen #, Finding Aids	
FOST 27973	SOIL SAMPLE	WC, CS, RM 134, M 24, BOX 1163	SOIL-SAMPLE	AREA 2, FEATURE 68, UNIT 19, CONTEXT 603	FIELD BAG # 671, 672	

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POST-FORT PRIVIES AND PRIVY-RELATED FEATURES

FEATURE 59: LARGE, COMMUNAL PRIVY, TPQ 1820 -1897						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 25448	SOIL SAMPLE	WC, CS, RM 134, M 23, BOX 1161	SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 10, STRATUM 9, LEVEL 11, CONTEXT 541	FIELD BAG # 558	
FOST 26116	SOIL SAMPLE	WC, CS, RM 134, M 23, BOX 1161	SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 14, CONTEXT 554	FIELD BAG # 576	
FOST 26151	WOOD SAMPLE	WC, CS, RM 134, M 14, BOX 1143	WOOD SAMPLE THERMALLY ALTERED WOOD-FRAGMENT	AREA 1, FEATURE 59, UNIT 14, STRATUM 6, LEVEL 15, CONTEXT 556	FIELD BAG # 578-582	TPQ 1897
FOST 26256	SOIL SAMPLE	WC, CS, RM 134, M 23, BOX 1161	SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26257	SOIL SAMPLE	WC, CS, RM 134, M 23, BOX 1161	178.1g REMOVED FOR PARASITOLOGICAL ANALYSIS 820.5g REMOVED FOR FLOTATION SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26258	WOOD SAMPLE	WC, CS, RM 134, M 14, BOX 1144	WOOD SAMPLE WOOD-FRAGMENT	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26263	FLOTATION SAMPLE	WC, CS, RM 134, M 14, BOX 1144	LIGHT FRACTION PICKED REMAINS NOTED BUT NOT SORTED WOOD, FIBER, INSECT PARTS, COAL, PLANT PARTS, CHARCOAL PICKED REMAINS	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26264	FLOTATION SAMPLE	WC, CS, RM 134, M 14, BOX 1144	HEAVY FRACTION PICKED REMAINS NOTED NOT SORTED WOOD, PUSH PIN, COAL ASH, FERROUS, EGGHELL, BONE FLOTATION SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879

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FEATURE 59: LARGE, COMMUNAL PRIVY, TPQ 1820 -1897						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 26265	SEED	WC, CS, RM 134, M 14, BOX 1144	SAMBUCUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26266	SEED	WC, CS, RM 134, M 14, BOX 1144	VITIS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26267	SEED	WC, CS, RM 134, M 14, BOX 1144	FRAGARIA FROM LIGHT FRACTION, SAMPLE SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26268	SEED	WC, CS, RM 134, M 14, BOX 1144	RUBUS FROM LIGHT FRACTION, SAMPLE SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26269	SEED	WC, CS, RM 134, M 14, BOX 1144	CHENOPODIUM FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26270	SEED	WC, CS, RM 134, M 14, BOX 1144	LYCOPERSICON ESCULENTUM FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26271	SEED	WC, CS, RM 134, M 14, BOX 1144	MALUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26272	SEED	WC, CS, RM 134, M 14, BOX 1144	INDETERMINATE FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26273	SEED	WC, CS, RM 134, M 14, BOX 1144	FRAGARIA FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26274	SEED	WC, CS, RM 134, M 14, BOX 1144	VITIS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879
FOST 26275	SEED	WC, CS, RM 134, M 14, BOX 1144	RUBUS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 7, LEVEL 16, CONTEXT 557	FIELD BAG # 583-594	TPQ 1879

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FEATURE 59: LARGE, COMMUNAL PRIVY, TPQ 1820 -1897						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 26451	WOOD SAMPLE	WC, CS, RM 134, M 16, BOX 1145	WOOD SMOOTH AND TWIG LIKE WOOD SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26455	SOIL SAMPLE	WC, CS, RM 134, M 23, BOX 1162	248.3g REMOVED FOR PARASITOLOGICAL ANALYSIS 2429.6g REMOVED FOR FLOTATION SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26456	FLOTATION SAMPLE	WC, CS, RM 134, M 16, BOX 1145	LIGHT FRACTION PICKED REMAINS NOTED BUT NOT SORTED WOOD, HAIR/FIBER, LEAF, BONE, GLASS FLOTATION SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26457	FLOTATION SAMPLE	WC, CS, RM 134, M 16, BOX 1145	HEAVY FRACTION PICKED REMAINS NOTED BUT NOT SORTED FLOTATION SAMPLE HAIR, BRICK, MORTAR, WOODEN TOOTHPICK, COPPER ALLOY BUTTON, BONE, BONE TOOTHBRUSH-FRAGMENT, WHITEWARE, CLAM SHELL, GLASS, COAL, FERROUS OBJECT, YELLOWWARE, FIBER, COPPER ALLOY, EGGSHELL	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26458	SEED	WC, CS, RM 134, M 16, BOX 1145	VITIS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26459	SEED	WC, CS, RM 134, M 16, BOX 1145	SAMBUCUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872

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FEATURE 59: LARGE, COMMUNAL PRIVY, TPQ 1820 -1897						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 26460	SEED	WC, CS, RM 134, M 16, BOX 1145	UNIDENTIFIED FROM LIGHT FRACTION POSSIBLE LYCOPERSICON ESCULENTUM SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26461	SEED	WC, CS, RM 134, M 16, BOX 1145	FRAGARIA FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26462	SEED	WC, CS, RM 134, M 16, BOX 1145	RUBUS FROM LIGHT FRACTION BRAMBLE: RASBERRY, BLACKBERRY NOTE: ONLY SAMPLE WAS SORTED OUT SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26463	SEED	WC, CS, RM 134, M 16, BOX 1145	VITIS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26464	SEED	WC, CS, RM 134, M 16, BOX 1145	FRAGARIA FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26465	SEED	WC, CS, RM 134, M 16, BOX 1145	RUBUS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 9, LEVEL 18, CONTEXT 563	FIELD BAG # 607-609, 613-615, 618-621	TPQ 1872
FOST 26604	SOIL SAMPLE	WC, CS, RM 134, M 24, BOX 1163	201.8g REMOVED FOR PARASITOLOGICAL ANALYSIS 131.5g REMOVED FOR FLOTATION SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 10, LEVEL 19, CONTEXT 566	FIELD BAG # 622-624, 626, 627, 629, 630, 635-640	TPQ 1897
FOST 26606	WOOD SAMPLE	WC, CS, RM 134, M 17, BOX 1147	SAMPLE WOOD-FRAGMENT	AREA 1, FEATURE 59, UNIT 14, STRATUM 10, LEVEL 19, CONTEXT 566	FIELD BAG # 622-624, 626, 627, 629, 630, 635-640	TPQ 1897

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

FEATURE 59: LARGE, COMMUNAL PRIVY, TPQ 1820 -1897						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 26612	FLOTATION SAMPLE	WC, CS, RM 134, M 17, BOX 1147	LIGHT FRACTION PICKED REMAINS NOTED BUT NOT SORTED WOOD, CHARCOAL, HAIR/FIBER FLOTATION SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 10, LEVEL 19, CONTEXT 566	FIELD BAG # 622-624, 626, 627, 629, 630, 635-640	TPQ 1897
FOST 26613	FLOTATION SAMPLE	WC, CS, RM 134, M 17, BOX 1147	HEAVY FRACTION PICKED REMAINS NOTED BUT NOT SORTED COAL, GLASS, WOOD, FERROUS, CHARCOAL, HAIR, MORTAR/PLASTER, EARTHENWARE, COPPER ALLOY, EGG SHELL, AND BARK FLOTATION-SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 10, LEVEL 19, CONTEXT 566	FIELD BAG # 622-624, 626, 627, 629, 630, 635-640	TPQ 1897
FOST 26614	SEED	WC, CS, RM 134, M 17, BOX 1147	SAMBUCUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 10, LEVEL 19, CONTEXT 566	FIELD BAG # 622-624, 626, 627, 629, 630, 635-640	TPQ 1897
FOST 26615	SEED	WC, CS, RM 134, M 17, BOX 1147	VITIS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 10, LEVEL 19, CONTEXT 566	FIELD BAG # 622-624, 626, 627, 629, 630, 635-640	TPQ 1897
FOST 26616	SEED	WC, CS, RM 134, M 17, BOX 1147	FRAGARIA FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 10, LEVEL 19, CONTEXT 566	FIELD BAG # 622-624, 626, 627, 629, 630, 635-640	TPQ 1897
FOST 26617	SEED	WC, CS, RM 134, M 17, BOX 1147	RUBUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 10, LEVEL 19, CONTEXT 566	FIELD BAG # 622-624, 626, 627, 629, 630, 635-640	TPQ 1897
FOST 26618	SEED	WC, CS, RM 134, M 17, BOX 1147	RUBUS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 10, LEVEL 19, CONTEXT 566	FIELD BAG # 622-624, 626, 627, 629, 630, 635-640	TPQ 1897
FOST 26678	SOIL SAMPLE	WC, CS, RM 134, M 23, BOX 1162	185.8g REMOVED FOR PARASITOLOGICAL ANALYSIS 2186.4g REMOVED FOR FLOTATION SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

FEATURE 59: LARGE, COMMUNAL PRIVY, TPQ 1820 -1897						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 26681	FLOTATION SAMPLE	WC, CS, RM 134, M 17, BOX 1147	LIGHT FRACTION PICKED REMAINS NOTED BUT NOT SORTED FIBER, BONE, COAL, COAL ASH AND HAIR FLOTATION SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26682	FLOTATION SAMPLE	WC, CS, RM 134, M 17, BOX 1147	HEAVY FRACTION PICKED REMAINS NOTED BUT NOT SORTED GLASS, COPPER ALLOY, PUSH PINS, FIBER, BONE, COAL, COAL ASH AND HAIR FLOTATION SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26683	SEED	WC, CS, RM 134, M 17, BOX 1147	PAPAVER FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26684	SEED	WC, CS, RM 134, M 17, BOX 1147	VITIS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26685	SEED	WC, CS, RM 134, M 17, BOX 1147	RUBUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26686	SEED	WC, CS, RM 134, M 17, BOX 1147	FRAGARIA FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26687	SEED	WC, CS, RM 134, M 17, BOX 1147	UNIDENTIFIED FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26688	SEED	WC, CS, RM 134, M 17, BOX 1147	UNIDENTIFIED FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26689	SEED	WC, CS, RM 134, M 17, BOX 1147	PEACH FROM LIGHT FRACTION PIT, PEACH	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

FEATURE 59: LARGE, COMMUNAL PRIVY, TPQ 1820 -1897						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 26690	SEED	WC, CS, RM 134, M 17, BOX 1147	UNIDENTIFIED FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26692	SEED	WC, CS, RM 134, M 17, BOX 1147	VITIS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26693	SEED	WC, CS, RM 134, M 17, BOX 1147	RUBUS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 11, LEVEL 20, CONTEXT 572	FIELD BAG # 641, 642	TPQ 1820
FOST 26747	SOIL SAMPLE	WC, CS, RM 134, M 23, BOX 1162	SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 21, CONTEXT 573	FIELD BAG # 643-652	TPQ 1865
FOST 26807	SOIL SAMPLE	WC, CS, RM 134, M 23, BOX 1162	270.5g REMOVED FOR PARASITOLOGICAL ANALYSIS 1756.3g REMOVED FOR FLOTATION SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26808	WOOD SAMPLE	WC, CS, RM 134, M 17, BOX 1148	SAMPLE WOOD-FRAGMENT	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26811	FLOTATION SAMPLE	WC, CS, RM 134, M 17, BOX 1148	LIGHT FRACTION PICKED REMAINS NOTED BUT NOT SORTED HAIR/FIBER, WOOD, INSECT PARTS FLOTATION SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26812	FLOTATION SAMPLE	WC, CS, RM 134, M 17, BOX 1148	HEAVY FRACTION PICKED REMAINS NOTED BUT NOT SORTED BRICK, MORTAR, GLASS, WHITEWARE, COPPER ALLOY, EGGSHELL FLOTATION SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

FEATURE 59: LARGE, COMMUNAL PRIVY, TPQ 1820 -1897						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 26813	SEED	WC, CS, RM 134, M 17, BOX 1148	VITIS FROM LIGHT FRACTION SEED-FRAGMENT	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26814	SEED	WC, CS, RM 134, M 17, BOX 1148	SAMBUCUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26815	SEED	WC, CS, RM 134, M 17, BOX 1148	FRAGARIA FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26816	SEED	WC, CS, RM 134, M 17, BOX 1148	UNIDENTIFIED FROM LIGHT FRACTION POSSIBLE LYCOPERSICON ESCULENTUM SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26817	SEED	WC, CS, RM 134, M 17, BOX 1148	RUBUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26818	SEED	WC, CS, RM 134, M 17, BOX 1148	INDETERMINATE FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26826	SEED	WC, CS, RM 134, M 17, BOX 1148	SAMBUCUS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26827	SEED	WC, CS, RM 134, M 17, BOX 1148	FRAGARIA FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26828	SEED	WC, CS, RM 134, M 17, BOX 1148	VITIS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879
FOST 26829	SEED	WC, CS, RM 134, M 17, BOX 1148	RUBUS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 12, LEVEL 22, CONTEXT 575	FIELD BAG # 654-655, 657-659	TPQ 1879

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

FEATURE 59: LARGE, COMMUNAL PRIVY, TPQ 1820 -1897						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 26837	SOIL SAMPLE	WC, CS, RM 134, M 23, BOX 1162	268.1g REMOVED FOR PARASITOLOGICAL ANALYSIS 2934.6g REMOVED FOR FLOTATION SOIL-SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 14, LEVEL 24, CONTEXT 610	FIELD BAG # 661	
FOST 26838	FLOTATION SAMPLE	WC, CS, RM 134, M 18, BOX 1149	LIGHT FRACTION PICKED REMAINS NOTED BUT NOT SORTED CHARCOAL, HAIR/FIBER, AND WOOD FLOTATION SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 14, LEVEL 24, CONTEXT 610	FIELD BAG # 661	
FOST 26839	FLOTATION SAMPLE	WC, CS, RM 134, M 18, BOX 1149	HEAVY FRACTION PICKED REMAINS NOTED BUT NOT SORTED CHARCOAL, GLASS, BONE, AND BRICK FLOTATION SAMPLE	AREA 1, FEATURE 59, UNIT 14, STRATUM 14, LEVEL 24, CONTEXT 610	FIELD BAG # 661	
FOST 26840	SEED	WC, CS, RM 134, M 18, BOX 1149	RUBUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 14, LEVEL 24, CONTEXT 610	FIELD BAG # 661	
FOST 26841	SEED	WC, CS, RM 134, M 18, BOX 1149	UNIDENTIFIED FROM LIGHT FRACTION POSSIBLY LYCOPERSICON ESCULENTUM SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 14, LEVEL 24, CONTEXT 610	FIELD BAG # 661	
FOST 26842	SEED	WC, CS, RM 134, M 18, BOX 1149	FRAGARIA FROM LIGHT FRACTION SEED-FRAGMENT	AREA 1, FEATURE 59, UNIT 14, STRATUM 14, LEVEL 24, CONTEXT 610	FIELD BAG # 661	
FOST 26843	SEED	WC, CS, RM 134, M 18, BOX 1149	RUBUS FROM HEAVY FRACTION SEED-FRAGMENT	AREA 1, FEATURE 59, UNIT 14, STRATUM 14, LEVEL 24, CONTEXT 610	FIELD BAG # 661	
FOST 26844	SEED	WC, CS, RM 134, M 18, BOX 1149	VITIS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 59, UNIT 14, STRATUM 14, LEVEL 24, CONTEXT 610	FIELD BAG # 661	

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

FEATURE 31: CLEANING EPISODE FOR PRIVY (FEATURE 59), TPQ 1820 - 1900						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 26872	WOOD SAMPLE	WC, CS, RM 134, M 18, BOX 1149	SAMPLE WOOD-FRAGMENT	AREA 1, FEATURE 31, UNIT 15, STRATUM 1, LEVEL 1, CONTEXT 529	FIELD BAG # 540	TPQ 1900
FOST 27052	SOIL SAMPLE	WC, CS, RM 134, M 24, BOX 1163	259.0g REMOVED FOR PARASITOLOGICAL ANALYSIS 1456.1g REMOVED FOR FLOTATION SOIL-SAMPLE	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27053	WOOD SAMPLE	WC, CS, RM 134, M 18, BOX 1150	SAMPLE WOOD-FRAGMENT	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27054	FLOTATION SAMPLE	WC, CS, RM 134, M 18, BOX 1150	LIGHT FRACTION PICKED REMAINS NOTED BUT NOT SORTED INSECT PARTS AND CHARCOAL FLOTATION SAMPLE	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27055	FLOTATION SAMPLE	WC, CS, RM 134, M 18, BOX 1150	HEAVY FRACTION PICKED REMAINS NOTED BUT NOT SORTED EARTHENWARE, INSECT PARTS, GLASS, MORTAR/PLASTER, EGGSHELL, BONE, FERROUS, COPPER ALLOY, COAL FLOTATION-SAMPLE	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27056	SEED	WC, CS, RM 134, M 18, BOX 1150	SAMBUCUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27057	SEED	WC, CS, RM 134, M 18, BOX 1150	VITIS FROM LIGHT FRACTION NOT ALL ARE COMPLETE SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27058	SEED	WC, CS, RM 134, M 18, BOX 1150	FRAGARIA FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27059	SEED	WC, CS, RM 134, M 18, BOX 1150	RUBUS FROM LIGHT FRACTION APPROXIMATELY 1/4-1/2 SAMPLE SORTED SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

FEATURE 31: CLEANING EPISODE FOR PRIVY (FEATURE 59), TPQ 1820 - 1900						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 27060	SEED	WC, CS, RM 134, M 18, BOX 1150	INDETERMINATE FROM LIGHT FRACTION POSSIBLE CHENOPODIUM (WORMSEED, LAMBSQUARTER, GOOSEFOOT) SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27061	SEED	WC, CS, RM 134, M 18, BOX 1150	MALIS PUMILA FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27062	SEED	WC, CS, RM 134, M 18, BOX 1150	INDETERMINATE FROM LIGHT FRACTION POSSIBLY LYCOPERSICON ESCULENTUM SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27063	SEED	WC, CS, RM 134, M 18, BOX 1150	INDETERMINATE FROM LIGHT FRACTION POSSIBLY GAYLUSACCIA BACCATA SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27064	SEED	WC, CS, RM 134, M 18, BOX 1150	INDETERMINATE FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27065	SEED	WC, CS, RM 134, M 18, BOX 1150	RUBUS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27066	SEED	WC, CS, RM 134, M 18, BOX 1150	FRAGARIA FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27067	SEED	WC, CS, RM 134, M 18, BOX 1150	VITIS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27068	SEED	WC, CS, RM 134, M 18, BOX 1150	INDETERMINATE FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 2, LEVEL 3, CONTEXT 536	FIELD BAG # 548, 551, 552, 555-557	TPQ 1820
FOST 27206	SOIL SAMPLE	WC, CS, RM 134, M 24, BOX 1163	296.3g REMOVED FOR PARASITOLOGICAL ANALYSIS 1283.7g REMOVED FOR FLOTATION SOIL-SAMPLE	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

FEATURE 31: CLEANING EPISODE FOR PRIVY (FEATURE 59), TPQ 1820 - 1900						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
FOST 27209	FLOTATION SAMPLE	WC, CS, RM 134, M 19, BOX 1151	LIGHT FRACTION PICKED REMAINS NOTED BUT NOT SORTED CHARCOAL FLOTATION SAMPLE	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27210	FLOTATION SAMPLE	WC, CS, RM 134, M 19, BOX 1151	HEAVY FRACTION PICKED REMAINS NOTED BUT NOT SORTED GLASS, EARTHENWARE, COPPER ALLOY, FERROUS, BONE AND EGGSHELL FLOTATION SAMPLE	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27211	SEED	WC, CS, RM 134, M 19, BOX 1151	UNIDENTIFIED FROM LIGHT FRACTION POSSIBLY CHENOPODIUM SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27212	SEED	WC, CS, RM 134, M 19, BOX 1151	VITIS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27213	SEED	WC, CS, RM 134, M 19, BOX 1151	SAMBUCUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27214	SEED	WC, CS, RM 134, M 19, BOX 1151	RUBUS (SAMPLE) FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27215	SEED	WC, CS, RM 134, M 19, BOX 1151	INDETERMINATE FROM LIGHT FRACTION SEED-FRAGMENT	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27216	SEED	WC, CS, RM 134, M 19, BOX 1151	FRAGARIA FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27217	SEED	WC, CS, RM 134, M 19, BOX 1151	FRAGARIA FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27218	SEED	WC, CS, RM 134, M 19, BOX 1151	VITIS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27219	SEED	WC, CS, RM 134, M 19, BOX 1151	RUBUS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

FEATURE 31: CLEANING EPISODE FOR PRIVY (FEATURE 59), TPQ 1820 - 1900						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
				4, CONTEXT 542		
FOST 27220	SEED	WC, CS, RM 134, M 19, BOX 1151	INDETERMINATE FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 4, CONTEXT 542	FIELD BAG # 559-563, 633	
FOST 27275	SOIL SAMPLE	WC, CS, RM 134, M 24, BOX 1163	335.0g REMOVED FOR PARASITOLOGICAL ANALYSIS 1018.7g REMOVED FOR FLOTATION SOIL-SAMPLE	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 5, CONTEXT 543	FIELD BAG # 564, 565	TPQ 1820
FOST 27276	FLOTATION SAMPLE	WC, CS, RM 134, M 19, BOX 1151	LIGHT FRACTION PICKED REMAINS NOTED BUT NOT SORTED CHARCOAL FLOTATION SAMPLE	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 5, CONTEXT 543	FIELD BAG # 564, 565	TPQ 1820
FOST 27277	FLOTATION SAMPLE	WC, CS, RM 134, M 19, BOX 1151	HEAVY FRACTION PICKED REMAINS NOTED BUT NOT SORTED BONE, BRICK, PUSH PIN FLOTATION SAMPLE	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 5, CONTEXT 543	FIELD BAG # 564, 565	TPQ 1820
FOST 27278	SEED	WC, CS, RM 134, M 19, BOX 1151	RUBUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 5, CONTEXT 543	FIELD BAG # 564, 565	TPQ 1820
FOST 27279	SEED	WC, CS, RM 134, M 19, BOX 1151	SAMBUCUS FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 5, CONTEXT 543	FIELD BAG # 564, 565	TPQ 1820
FOST 27280	SEED	WC, CS, RM 134, M 19, BOX 1151	FRAGARIA FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 5, CONTEXT 543	FIELD BAG # 564, 565	TPQ 1820
FOST 27281	SEED	WC, CS, RM 134, M 19, BOX 1151	CHENOPODIUM FROM LIGHT FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 5, CONTEXT 543	FIELD BAG # 564, 565	TPQ 1820
FOST 27282	SEED	WC, CS, RM 134, M 19, BOX 1151	UNIDENTIFIED FROM LIGHT FRACTION POSSIBLY LYCOPERSICON ESCULENTUM SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 5, CONTEXT 543	FIELD BAG # 564, 565	TPQ 1820
FOST 27283	SEED	WC, CS, RM 134, M 19, BOX 1151	RUBUS FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL	FIELD BAG # 564, 565	TPQ 1820

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FEATURE 31: CLEANING EPISODE FOR PRIVY (FEATURE 59), TPQ 1820 - 1900						
Catalog #	Object	Location	Description	Site Information	Field Bag Numbers Assigned During Excavation	Interpretation
				5, CONTEXT 543		
FOST 27284	SEED	WC, CS, RM 134, M 19, BOX 1151	UNIDENTIFIED FROM HEAVY FRACTION SEED	AREA 1, FEATURE 31, UNIT 15, STRATUM 3, LEVEL 5, CONTEXT 543	FIELD BAG # 564, 565	TPQ 1820
FOST 23485	UNWORKED WOOD	WC, CS, RM 134, M 2, BOX 1120	WOOD BURNED WOOD-FRAGMENT	TRENCH A, SEGMENT 1, FEATURE 31, UNIT 4, STRATUM 4, LEVEL 8, CONTEXT 68	FIELD BAG # 78	

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Conclusion

Both diet and foodways can be examined from the collections noted above, despite bias from the sampling methodology. Research may yield information regarding the daily meals and subsistence practices for people at Fort Stanwix when it was an active fort and for the people of early Rome, NY. Botanicals can reveal different foods and how they were accessed (rationed, traded, gathered from the local environment, or produced), indicate health and wellness, and demonstrate the status and class of community. They can be utilized along with faunal and material culture analyses to bolster research related to foodways, the environment, and social relations.

To conclude this overview of the botanical materials I will reiterate some of the recommendations regarding the macrobotanical materials in the collection and include some recommendations regarding future work.

- 1) All previous analysis on the 1970s and 2003 macrobotanical materials should be disregarded and new analysis should be completed by a qualified individual or someone under the supervision of a paleoethnobotanist or archaeobotanist.
- 2) Botanicals should be rehoused. The Hartgen botanicals are the most at risk for damage and rehousing should be undertaken regardless of current research interest. The botanicals from the 1970s excavation can be rehoused upon identification and analysis.
- 3) Other botanicals in the collection, those not identified here as priority (see Appendix D), may be of interest to researchers and should be addressed in a similar report.
- 4) The “soil samples” from the 1970s excavations and the 2003 excavations should be processed and analyzed. This may entail floating the soil or processing them without flotation. This decision can be at the discretion of the researcher but should be discussed with and agreed upon in consultation with Fort Stanwix employees before processing occurs.
- 5) Items labelled “soil sample” from the 1970s excavations should be checked and re-cataloged if necessary. Some of these bags are mortar samples and are misidentified.
- 6) There are still questions surrounding the interpretation of some of the archeological contexts. Unpacking these contexts is important for the analysis of macrobotanical materials and other objects from the archeological collection.

There are rich research materials within the Fort Stanwix National Monument museum collection and this report will aid future researchers in better understanding the macrobotanical materials and the contexts they were excavated from.

OVERVIEW OF PRIORITY BOTANICAL MATERIALS

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