Appendix 2
ARCHAEOBOTANICAL REMAINS FROM THE FOXIE OTTER SITE

by
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Macrosossil Analysis

Sixty-nine soil samples from the Foxie Otter site were submitted by Christopher Hanks for plant macrofossil identification in April of 1981. Two samples were not analyzed: sample 15, which contained two lithic fragments, and sample 69, in which the bag had disintegrated.

The following is the archaeological context of the soil samples. Samples 13, 16, 17, 37 and 68 were hearth samples; samples 2, 3, 9, 38, 43, 44, 51, 52, and 53 were feature samples; samples 1, 4–7, 10, 11, 12, 14, 18–36, 38–42, 45–50, 54–57, 66, and 67 were quadrant and level or depth samples; samples 58 through 65 were soil comparative samples.

Method

Ten large soil samples (4, 17, 30, 31, 33, 34, 35, 36, 47, and 57) were floated using a SMAP machine (Watson 1976). Remaining soil samples (approximately one cubic liter each) were concentrated by dry sieving with a 9.5, 6.3 and 0.5 mm mesh.

Floated samples produced a light fraction that is included in this report. The dense material that sank was not analyzed.

Carbonized seeds were picked from float and soil residue under 10× magnification with a stereomicroscope. Uncarbonized seeds and other plant remains were identified but not picked, except for unknowns. Seeds were identified using seed identification manuals (Montgomery 1977; Martin and Barkley 1973) and by comparison with reference specimens.
Carbonized wood was prepared for examination by breaking the specimen to obtain a fresh transverse (cross) section and was identified using an illustrated wood charcoal identification key (McAndrews et al.) and by comparison with reference specimens. Identification was made under magnification of 7× to 40×.

Seeds

The concentrate was mostly mineral soil particles. The organic material was carbonized and uncarbonized plant debris, such as wood, leaf fragments and roots.

A total of 11,178 ml of float and dry soil residue was examined. This yielded 157 seeds; 146 (8 taxa) were uncarbonized and 11 (4 taxa) were carbonized (Table 2.1).

Carbonized seeds or seed fragments of pin cherry, raspberry, elderberry, hazelnut and unknowns were present in samples 8, 13, 14, 19, 23, 28, 40, 47, 51, 57 and 66. Uncarbonized seeds of birch, hazelnut, knotweed, pin cherry, raspberry, cedar, Viola and unknowns were present in 39 of 69 samples.

The carbonized seeds were confined to the cultural soil samples. Only uncarbonized seeds were present in the comparative (control) samples.

Carbonized Wood

Some fragments were large enough to identify, but most were too small (less than 5 mm) for positive identification.

A total of 36.0 g of carbonized wood were examined from 38 samples (Table 2.2).

Carbonized wood from 38 samples was classified into seven categories: (1) maple, (2) birch, (3) poplar/willow, (4) indeterminable diffuse porous, (5) pine, (6) indeterminable conifer wood, and (7) indeterminable. Pine and indeterminable conifer were the most abundant. Poplar/willow, birch and maple were the less abundant hardwoods.

Pine wood makes up the largest portion of carbonized wood examined (52.5%). Small amounts of poplar/willow (13.8%), maple (1.1%) and birch (.6%) were also identified. Partially identified wood amounted to 26.1% and 5.8%. Small amounts of pine wood was identified in control samples 59 and 65. Pine wood was present in hearth samples 17 and 68 and maple wood was identified in hearth sample 68.
Discussion

The fossil seeds and carbonized wood are all derived from plants that are native to the site: no fossils of introduced plants were identified. Raspberry, elderberry, and knotweed are weedy and thrive on sites disturbed by humans. Birch, hazelnut and pin cherry flourish after forest fires. Thus some of the fossils could be the result of twentieth century disturbance. However, because the control samples lacked the carbonized seeds that were present in the cultural samples, except hearths, we infer that at least some of the carbonized seeds are contemporaneous with prehistoric occupation.

The uncarbonized fossils suggest intrusion of modern seeds into prehistoric soil levels and features.

Hazelnut, pin cherry, raspberry and elderberry are edible. If the prehistoric inhabitants had gathered these fruits this would indicate a summer-fall occupation. The sparseness of edible fruit remains suggests casual rather than intensive use.

The fossil flora is consistent with the vegetation of the past 7,000 years and no further chronological refinement can be made.

The presence of carbonized wood in the control samples suggests that some of the fossil carbonized wood could be intrusive. The lack of carbonized wood in the three “hearth” samples casts doubt that these features actually were hearths.

ACKNOWLEDGMENTS

We thank Christine Caroppo for critical assessment and Linda White who typed the manuscript.

REFERENCES


Martin, A. C., and W. D. Barkley

Montgomery, F. H.

Panshin, A. J., and C. de Zeeuw

Watson, Patty J.
### TABLE 2.1
Uncarbonized and Carbonized Seed and Plant Remains Identified from the Foxie Otter Site

<table>
<thead>
<tr>
<th>Code</th>
<th>Sample Details</th>
<th>Concentration</th>
<th>Carbonized/Uncarbonized</th>
<th>Other Information</th>
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<tr>
<td>R1</td>
<td>Hanks-A-1, Quadrant 1, Level 1.</td>
<td>112 cc, 24 g</td>
<td>Uncarbonized seeds—Polygonum(^1), Prunus(^2), Sambucus</td>
<td>Needles—Thuja</td>
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<td>R2</td>
<td>B-0-1, Fea. 1.</td>
<td>200 cc, 46 g</td>
<td>Uncarbonized seeds—unknown</td>
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<td>R3</td>
<td>B-0-1, Fea. 1. Concentrate</td>
<td>115 cc, 55 g</td>
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<td>R4</td>
<td>B-0-3, Concentrate 700 cc, 123 g</td>
<td>Prunus fragment</td>
<td>Uncarbonized seeds—Polygonum, Prunus, Rubus</td>
<td>Fruit scale—Betula, Needles—Thuja</td>
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<td>R5</td>
<td>B-0-3, depth 18 cm.</td>
<td>Concentrate 100 cc, 27 g</td>
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<td>R6</td>
<td>B-0-3, Concentrate</td>
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<td>R7</td>
<td>B-0-3, Concentrate 135 cc, 15 g</td>
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<td>B-0-4, Depth 13 cm. Concentrate</td>
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<td>R12</td>
<td>E-0. Quadrant 4, Level 4. Concentrate 115 cc, 53 g</td>
<td>Prunus</td>
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<td>R13</td>
<td>E-0. Hearth, Level 2. Concentrate 200 cc, 35 g</td>
<td>Rubus 2, unknown 3</td>
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<td>R14</td>
<td>E-0. Quadrant 2, Level 4. Concentrate 95 cc, 38 g</td>
<td>Prunus</td>
<td>Uncarbonized seeds—Prunus</td>
<td>Carbonized seeds—Corylus (frag.)</td>
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<td>Needles—conifer fragments</td>
<td>Artifact—chert flake</td>
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</table>

\(^1\)P. cf ciliinode  
\(^2\)P. pensylvanica

Soil samples and botanical specimens are housed in the Botany Department, Canadiana Building, Royal Ontario Museum in Toronto.

R15 Two lithic core fragments

R16 E-0. Hearth, Quadrant 3, Level 1. Concentrate 100 cc, 33 g
Uncarbonized seeds—Betula 3, unknown 2

R17 E-00. Feature 3, Hearth, Quadrant 1, Level 3. Concentrate 500 cc, 56 g
Uncarbonized seeds—Prunus 66

R18 E-0. Quadrant 2, Level 2. Concentrate 165 cc, 66 g
Uncarbonized seeds—Polygonum 1
Needles—Picea

R19 E-0. Quadrant ?, Level 3. Concentrate 90 cc, 29 g
Carbonized seed—unknown 1

R20 E-0. Level 1. Concentrate 70 cc, 36 g
Fruit scale—Betula

R21 38° 2N0W-2. Concentrate 70 cc, 36 g
Uncarbonized seeds—Viola? 1
Needles—Thuja

R22 7N0E. Quadrant 2, Level 2. Concentrate 210 cc, 94 g
Uncarbonized seeds—Betula 1, Prunus 1, Sambucus 1
Artifacts—quartz flake.

R23 E7N0E. Quadrant 3. Concentrate 120 cc, 45 g
Carbonized seeds—Sambucus 1
Needles—Thuja

R24 E7N0E. Quadrant 3, Level 3. Concentrate 130 cc, 75 g

R25 E8N0E. Quadrant 2, Level 2. Concentrate 84 cc, 42 g
Uncarbonized seeds—Thuja 1
Needles—Thuja

R26 E8N0E. Quadrant 4, Level 1. Concentrate 101 cc, 32 g
Uncarbonized seeds—Rubus 1
Needles—Thuja
Artifacts—quartz flake

R27 E9N0E. Quadrant 2, Level 2. Concentrate 155 cc, 72 g
Uncarbonized seeds—Prunus 1.
Fruit scale—Betula
Needles—Picea, Thuja
Cone scale—Thuja
Artifacts—chert flake

R28 E9N0E. Quadrant 3, Level 2. Concentrate 150 cc, 76 g
Carbonized seeds—Prunus 1
R29  E9N0E. Quadrant 2, Level 2. Concentrate 175 cc, 104 g
Uncarbonized seeds—Thuja
Needles—Thuja 9

R30  9N2W. Quadrant 3, Level 2. Concentrate 175 cc, 20 g
Uncarbonized seeds—Betula 1, Polygonum 3, Prunus fragments, Rubus 7, Viola? 43,
unknown 3

R31  9N2W. Quadrant 3, Level 2. Concentrate 50 cc, 4 g
Uncarbonized seeds—Prunus 1, Rubus 1, Viola 5

R32  38°10N3W. Quadrant ?, Level 2. Concentrate 33 cc, 15 g

R33  38°10N3W. Quadrant 3, Level 2. Concentrate 33 cc, 15 g

R34  38°10N3W. Quadrant 3, Level 2. Concentrate 125 cc, 29 g
Uncarbonized seeds—Prunus fragments, Rubus 8, unknown 1

R35  38°10N4W. Quadrant 3, Level 2. Concentrate 50 cc, 6 g

R36  38°14N0W. Level 2. Concentrate 250 cc, 50 g
Uncarbonized seeds—Betula 2, Prunus 1, unknown 6

R37  38°14N0W-2. Hearth, Level 2. Concentrate 225 cc, 143 g
Plant remains absent

R38  38°14N0W-2. Feature 6, Level 2. Concentrate 175 cc, 108 g
Uncarbonized seeds—Prunus fragments
Needles—conifer fragments

R39  38°14N0W-3. Concentrate 180 cc, 95 g
Uncarbonized seeds—Prunus fragments
Needles—Picea

R40  38°14N0W-3. Level 2. Concentrate 175 cc, 108 g
Carbonized seeds—Sambucus 1

R41  38°14N0W-3. Level 2. Concentrate 140 cc, 100 g

R42  38°14N0W-3. Concentrate 140 cc, 100 g
Carbonized seeds—Prunus fragments, unknown 1.
Fruit scale—Betula
Needles—Picea

R43  38°15N1W-1. Feature 8. Level 2. Concentrate 155 cc, 115 g
Needles—Picea

R44  38°15N1W-1. Feature 3. Concentrate 80 cc, 70 g
Plant remains absent

R45  E0N0E. Quadrant 2, (extension 1). Concentrate 83 cc, 51 g
Artifacts—quartz flake.

Botanical Lexicon: Betula = birch, Corylus = hazelnut, Polygonum = knotweed, Prunus = pin cherry, Rubus = raspberry, Sambucus = elderberry, Thuja = cedar, Viola = violet, Picea = spruce.
Appendix 2

R46  E0NE0. Quadrant 2, (extension 2), Level 3. Concentrate 83 cc, 51 g
Artifact — chert flake, quartz flake

R47  E0NE0. Level 2. Concentrate 700 cc, 134 g
Carbonized seeds — Betula 4, Prunus 1, Rubus 1, unknown 2
Needles — Thuja. Cone scale — Thuja

R48  E0NE0. Quadrant 1, Level 2. Concentrate 285 cc, 47 g

R49  E0NE0. Quadrant 2, Level 3. Concentrate 200 cc, 16 g

R50  E0NE0. Quadrant 3, Level 3. Concentrate 100 cc, 77 g
Fruit scale — Betula

R51  E0NE0. Feature 4. Quadrant 4, Level 2. Concentrate 190 cc, 47 g
Carbonized seeds — Prunus 1

R52  O.S. 0NE0. Feature 7. Quadrant 2, Level 3. Concentrate 130 cc, 58 g
Plant remains absent
Artifact — chert flake.

R53  O.S. 0NE0. Feature 7. Quadrant 2, Level 3. Concentrate 130 cc, 65 g
Plant remains absent

R54  E. 0SE0-1. Concentrate 82 cc, 46 g

R55  E. 0SE0-1. Concentrate 220 cc, 70 g
Fruit scale — Betula
Needles — Picea, Thuja

R56  E. 0SE0-2. Concentrate 185 cc, 63 g
Uncarbonized seeds — Betula 1, Prunus 1
Needles — Thuja

R57  E. 0SE0-2. Concentrate 400 cc, 51 g
Uncarbonized seeds — Betula 1, Prunus 1, unknown 1
Carbonized seeds — unknown 2

R58  Soil sample, comparative. Concentrate 165 cc, 63 g
Uncarbonized seeds — Betula 1, Prunus fragments, Rubus 3
Needles — Picea, Thuja

R59  Soil Sample, comparative. Concentrate 145 cc, 36 g
Uncarbonized seeds — Betula 1, Prunus 1

R60  Soil sample, comparative. Concentrate 228 cc, 63 g
Uncarbonized seeds — Corylus fragments

R61  Soil sample, comparative. Concentrate 238 cc, 81 g
Uncarbonized seeds — Betula 1, Thuja 1
Needles — Picea, Thuja
Cone scale — Thuja
R62  Soil sample, comparative. Concentrate 40 cc, 26 g
Uncarbonized seeds—Thuja 1.
Fruit scale—Betula
Needles—Picea, Thuja

R63  Soil sample, comparative. Concentrate 50 cc, 10 g

R64  Soil sample, comparative. Concentrate 65 cc, 45 g
Uncarbonized seeds—Prunus fragments

R65  Soil sample, comparative. Concentrate 70 cc, 46g

R66  E. 1N0E-4. Concentrate 270 cc, 42 g
Uncarbonized seeds—Prunus fragments
Carbonized seeds—unknown 1

R67  E.1N0E-2. Concentrate 200 cc, 75 g
Fruit scale—Betula
Needles—Picea, Thuja?
Artifacts—chert flake, quartz flake

R68  E. 1N0E-4. Hearth. Concentrate 105 cc, 42 g
Needles—Thuja
Artifacts—chert flake

R69  No provenience on bag.

Botanical Lexicon: Betula = birch, Corylus = hazelnut, Polygonum = knotweed, Prunus = pin cherry, Rubus = raspberry, Sambucus = elderberry, Thuja = cedar, Viola = violet, Picea = spruce.
## TABLE 2.2
Carbonized Wood (>5mm) in Grams from Foxie Otter Site

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<tr>
<th>ROM #(^a)</th>
<th>Acer(^b)</th>
<th>Betula(^c)</th>
<th><em>Populus</em>(^d)</th>
<th><em>Salix</em>(^d)</th>
<th>I.D.P.(^e)</th>
<th>I(^f)</th>
<th>Pinus(^g)</th>
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Total: .4  .2  5.0  1.5  2.1  18.9  7.9  36.0

%: 1.1  .6  13.8  4.2  5.8  52.5  21.9  99.9

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\(^a\) Royal Ontario Museum catalog number

\(^b\) Maple

\(^c\) Birch

\(^d\) Poplar/Willow

\(^e\) Indeterminable diffuse porous

\(^f\) Indeterminable

\(^g\) Pine

\(^h\) Indeterminable conifer