Investigation and Assessment of the Herbarium Specimens of the Monhegan Museum

2020 Les Mehrhoff Botanical Research Award Final Report

by
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December 2020

Illustration of *Ranunculus repens* L. by Geraldine King Tam

Introduction

Monhegan Island, .75 square miles, is located 11 miles out to sea in Lincoln County, Maine. The Monhegan Museum of Art & History ("the Museum") and Coastal Maine Botanical Gardens ("CMBG") are collaborating on a suite of exhibitions, interpretive events, and publications centered around the Museum's 237 remarkable painted botanical illustrations and an additional 500 sketches of Monhegan's wild plants completed by botanical artist Geraldine King Tam (1920-2016). Tam, best known for *Paradisus: Hawaiian Plant Watercolors* (1999), spent 32 summers on the island and was an integral part of its famed artists' colony.

This collaborative series revolving around Tam's Maine works (see Figure 1.) launched in September 2020 with "A Beachcomber's Botany" field course on Monhegan's shores, followed by a private viewing of Tam's coastal wildflower illustrations at the Museum. During the first conceptual exchanges about these offerings, it was discovered that the Museum's archival collections included not only Tam's artwork, but also her botanical specimens from the island. We presumed the botanical specimens were collected to facilitate the illustration process and estimated the Museum held between 300 and 350 pressed specimens collected between 1964 and 1980. The unmounted specimens were stored in newspaper in several boxes in the Museum's holdings. However, the specimens themselves were unidentified, unlabeled, and unassociated with any of the botanical illustrations.

Figure 1. Example of one of Geraldine King Tam's 237 botanical illustrations.

Given that Lincoln County is one of the most under-collected counties both in Maine (Campbell et al. 1995) and New England (pers. obs.), the discovery of hundreds of undocumented specimens from the region was significant. This project researched and assessed the contents of the Tam herbarium collection in order to 1) prepare the specimens for accession and curation by the Museum; 2) gather voucher specimen data for the MidCoast Flora Project, which includes Monhegan; and 3) prioritize which specimens will contribute to the suite of programs, exhibitions, and publications jointly planned for Tam's art/herbarium collections.

Methods

Specimens were transported from the Museum to CMBG, where, after freezing to eliminate any possible insect pests, they were carefully unpacked and assigned a unique number identifier. Specimens were then sorted into families and genera. Each specimen was determined, if possible (due to completeness or timing of collection), and its name recorded (following Haines 2011). Also recorded were the unique identifier, approximate year of collection (inferred by newspapers within which specimens were pressed/ known occupancy dates of Tam on Monhegan), and Museum accession numbers of corresponding botanical illustrations, if any, based on image titles provided by the Museum. Archival labels were prepared for each of the
specimens. These were affixed to herbarium paper and associated with specimens for mounting at the Museum (a later phase of this project).

Specimens were compared against existing voucher specimens from the region (Consortium of Northeastern Herbaria website, accessed December 2020) and CMBG's MidCoast Flora database to determine whether any of Tam's collections represented unvouchered taxa in Lincoln County.

Results

The Museum's holdings of Tam's herbarium collection totals 300 specimens of 203 species (Appendix 1). Although several specimens were mere fragments, many were lacking bases and/or underground parts, and all were lacking habitat information, 299 specimens were able to be identified to family and genus. Two hundred and ninety-five specimens (98.3%) were able to be identified to species level based on material available for examination.

Two hundred and fifty-one specimens (84%) could be confidently associated with a botanical illustration by Tam in the Museum's collections. During the process of linking Tam's specimens with her botanical illustrations, 31 untitled/unlabeled illustrations were also identified for the Museum's records (Appendix 2).

The collection of specimens is comprised primarily of native wildflowers, and upon examining the specimens we can confirm that they were indeed used to inform her illustrations. These illustrations, based on associated notes and drafts, she intended to publish in a work entitled "200 Wildflowers of the Northeast."

Tam's collections are notable in that they also include a number of potential native and non-native garden escapes that have not hitherto been vouchered from Lincoln County. Because Tam intended to illustrate wildflowers, as evidenced by the introduction of her draft manuscript, we suspect that her collections were made from plants growing outside of cultivation. However, without specific notes on habitat and situation, we are unable to definitively report new county records for these. Rather, we note them (Appendix 3) for further research into Tam's notes and research in the field. Many of these suspected escapes are also listed by Cooper (1990) in his list of island wildflowers.

Discussion

Results of the specimen inventory allow the Museum and CMBG to fully understand the contents of the Tam collection, enabling us to further collaborate on curation, exhibits, and publications. The alignment between Tam's botanical specimens and illustrations creates a powerful tool for our organizations to educate about the wild flora of Monhegan, Tam's work, and the purpose of herbarium specimens in art, science, and avocational nature study.

For the 16% of specimens that could not be correlated to an image title, further work may prove useful. Because some illustrations were titled to only to genus by common name and more than one taxon in the genus was collected, viewing any such images to identify them to species level will allow more specimens to be linked to images.

The specimen data from this project has been incorporated into the MidCoast Flora Project, providing valuable information on the Monhegan flora between 1964 and 1980. For example:

- Vouchers for *Ageratina altissima* (L.) King & H.E. Robins. var. *altissima*, *Geranium maculatum* L., *Pholx subulata* L., and *Medicago lupulina* L. pre-date county-level discoveries recently collected by the first author and/or collaborators at the Maine Natural Areas Program.
- Vouchers of native species sometimes cultivated, such as *Polygonatum biflorum* (Walt.) Ell. and *Trillium grandiflorum* (Michx.) Salisb. warrant further investigation into circumstances of collection in Tam's writings and in the field. Tam's relatively early voucher for *Celastrus orbiculatus* Thunb. (30 June 1977) provides insight into date of establishment for this pervasive and problematic invasive species on the island.
- Vouchers for *Hypochaeris radicata* L. and *Convolvulus arvensis* L. represent the first documentations of the presence of new non-native weeds in Lincoln County.
- A voucher for the uncommon *Mertensia maritima* (L.) S.F. Gray is the most recent voucher known for that station by at least 43 years (Consortium of Northeastern Herbaria website, accessed December 2020).
- Finally, the list of possible new non-native garden escapes (Appendix 3) will inform field searches to determine whether these vouchers truly represent occurrences of taxa escaped from cultivation on Monhegan.

Acknowledgements

The Museum and CMBG thank the New England Botanical Club for funding this collaborative project.

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Appendix 1. List of botanical specimens of Geraldine King Tam

CMBG-assigned number	Scientific name	Specimen condition issue	Tam image accession number
1	*Trifolium arvense* L.		7029.068
2	*Sisymbrium officinale* (L.) Scop.		7029.055
3	*Linaria vulgaris* P. Mill.		7029.151
4	*Geranium robertianum* L.		7029.080
5	*Platanthera psycodes* (L.) Lindl.		7029.015
6	*Oxalis stricta* L.		7029.082
7	*Oxalis stricta* L.		7029.082
8	*Veronica longifolia* L.		7029.149
9	*Veronica longifolia* L.		7029.149
10	*Lepidium campestre* (L.) Ait. f.		7029.046
11	*Urtica dioica* L. ssp. *gracilis* (Ait.) Seland.		7029.019
12	*Valeriana officinalis* L.		7029.156
13	*Rumex crispus* L.		7029.021
14	*Oenothera perennis* L.		7029.098
15	*Melampyrum lineare* Desr.		7029.147
16	*Lysimachia punctata* L.		7029.116
17	*Lysimachia punctata* L.		7029.117
18	*Potentilla litoralis* Rydb.		7029.065
19	*Scutellaria galericulata* L.		7029.218
20	*Solanum nigrum* L. ssp. *nigrum*		7029.140
21	*Circaea alpina* L.		7029.205
22	*Hydrocotyle americana* L.		7029.107
23	*Rhinanthus minor* L.		7029.146
24	*Achillea millefolium* L.		7029.172
25	*Thalictrum pubescens* Pursh		7029.041
26	*Thalictrum pubescens* Pursh		7029.041
27	*Vicia sativa* L. ssp. *nigra* (L.) Ehrh.		7029.069
28	*Honckenya peploides* (L.) Ehrh.		7029.204
29	*Hieracium caespitosum* Dumort.		7029.021
30	*Cerastium strictum* L.		7029.030
31	*Lysimachia maritima* (L.) Galasso, Banfi, & Soldano		7029.119
32	*Phlox subulata* L.		7029.161
33	*Convolvulus arvensis* L.		7029.126
34	*Euphorbia cyparissias* L.		7029.229
35	*Cirsium arvense* (L.) Scop.		7029.212
36	*Vaccinium angustifolium* Ait.		7029.115
37	*Teucrium canadense* L. var. *occidentale* (Gray) McClintock & Epling		7029.132
38	*Arctium lappa* L.		7029.183
39	*Odontites vernus* (Bellardi) Dumort. ssp. *serotinus* (Dumort.) Corb.		7029.145

CMBG-assigned number	Scientific name	Specimen condition issue	Tam image accession number
40	*Euthamia graminifolia* (L.) Nutt.		7029.174
41	*Euthamia graminifolia* (L.) Nutt.		7029.175
42	*Scorzoneroides autumnalis* (L.) Moench		7029.223
43	*Rudbeckia hirta* L. var. *pulcherrima* Farw.		7029.173
44	*Bidens frondosa* L.		7029.187
45	*Asclepias syriaca* L.		7029.123
46	*Veronica persica* Poir.		
47	*Oxalis stricta* L.		7029.082
48	*Potentilla argentea* L.		7029.063
49	*Trifolium arvense* L.		7029.068
50	*Arisaema triphyllum* (L.) Schott ssp. *stewardsonii* (Britt.) Huttleston		7029.004
51	*Oxalis montana* Raf.		7029.081
52	*Tragopogon pratensis* L.		
53	*Honckenya peploides* (L.) Ehrh.		7029.204
54	*Moehringia lateriflora* (L.) Fenzl		7029.213
55	*Rumex acetosella* L.		7029.020
56	*Veronica officinalis* L.		7029.143
57	*Stellaria graminea* (Ledeb.) Bong.		7029.028
58	*Drosera* sp.	fragment; no leaves	7029.230
59	*Linaria vulgaris* P. Mill.		7029.151
60	*Hypericum perforatum* L.		7029.087, 7029.088
61	*Galium triflorum* Michx.		7029.163
62	*Monotropa uniflora* L.		
63	*Asclepias syriaca* L.		7029.123
64	*Fallopia cilinodis* (Michx.) Holub		7029.022
65	*Fallopia cilinodis* (Michx.) Holub		7029.022
66	*Streptopus lanceolatus* (Ait.) Reveal		
67	*Argentina egedii* (Wormsk.) Rydb. ssp. *groenlandica* (Tratt.) A. Löve		7029.059
68	*Thalictrum pubescens* Pursh		7029.041
69	*Thalictrum pubescens* Pursh		7029.041
70	*Potentilla simplex* Michx.		
71	*Cakile edentula* (Bigelow) Hook.		7029.053
72	*Symphyotrichum novi-belgii* (L.) Nesom		7029.210
73	*Symphyotrichum ericoides* (L.) Nesom		7029.200
74	*Spiranthes ochroleuca* (Rydb.) Rydb.		
75	*Scutellaria galericulata* L.		7029.218
76	*Tanacetum vulgare* L.		7029.170
77	*Hieracium kalmii* L.		7029.191
78	*Geranium maculatum* L.		
79	*Antennaria neglecta* Greene		7029.182

CMBG-assigned number	Scientific name	Specimen condition issue	Tam image accession number
80	*Potentilla litoralis* Rydb.		7029.065
81	*Vaccinium angustifolium* Ait.		7029.115
82	*Viola sororia* Willd.		7029.093
83	*Houstonia caerulea* L.		7029.165
84	*Leucanthemum vulgare* Lam.		7029.234
85	*Trifolium repens* L.		7029.074
86	*Trifolium aureum* Pollich		7029.073
87	*Medicago lupulina* L.		7029.071
88	*Capsella bursa-pastoris* (L.) Medik.		7029.051
89	*Epilobium ciliatum* Raf.		7029.097
90	*Melilotus albus* Medik.		7029.072
91	*Galinsoga quadriradiata* Ruiz & Pavón		7029.193
92	*Sonchus arvensis* L.		7029.178
93	*Oenothera sp.*	fragment	
94	*Lysimachia arvensis* (L.) U. Manns & A. Anderb.		7029.118
95	*Lycopus americanus* Muhl. ex W. Bart.		
96	*Lycopus americanus* Muhl. ex W. Bart.		
97	*Eupatorium perfoliatum* L.		7029.222
98	*Lobelia inflata* L.		7029.158
99	*Cakile edentula* (Bigelow) Hook.		7029.053
100	*Sonchus oleraceus* L.		7029.179
101	*Impatiens capensis* Meerb.		7029.084
102	*Sonchus asper* (L.) Hill		7029.177
103	*Eupatorium perfoliatum* L.		7029.222
104	*Trifolium pratense* L.		7029.067
105	*Cirsium vulgare* (Savi) Ten.		
106	*Anaphalis margaritacea* (L.) Benth. & Hook. f.		7029.180
107	*Maianthemum canadense* Desf.		7029.008
108	*Nabalus altissimus* (L.) Hook.		
109	*Anaphalis margaritacea* (L.) Benth. & Hook. f.		7029.180
110	*Prunella vulgaris* L. ssp. *lanceolata* (W. Bart.) Hultén		7029.133
111	*Stellaria graminea* (Ledeb.) Bong.		7029.028
112	*Silene latifolia Poir. ssp. alba* (P. Mill.) Greuter & Burdet		
113	*Silene latifolia Poir. ssp. alba* (P. Mill.) Greuter & Burdet		
114	*Silene vulgaris* (Moench) Garcke		7029.035, 7029.036
115	*Silene noctiflora* L.		
116	*Filipendula rubra* (Hill) B.L. Robins.		7029.060
117	*Calystegia sepium* (L.) R. Br. ssp. *americana* (Sims) Brummitt		7029.127
118	*Typha latifolia* L.		7029.001
119	*Portulaca oleracea* L.		7029.027

CMBG-assigned number	Scientific name	Specimen condition issue	Tam image accession number
120	*Gnaphalium uliginosum* L.		7029.190
121	*Erigeron annuus* (L.) Pers.		7029.195, 7029.196
122	*Daucus carota* L.		7029.101
123	*Daucus carota* L.		7029.101
124	*Oclemena acuminata* (Michx.) Nesom		7029.184
125	*Cynanchum louiseae* Kartesz & Gandhi		7029.125
126	*Mertensia maritima* (L.) S.F. Gray		7029.130
127	*Hemorocallis lilioasphodelus* L.		
128	*Anthemis cotula* L.		7029.168
129	*Anthemis cotula* L.		7029.168
130	*Oclemena acuminata* (Michx.) Nesom		7029.184
131	*Symphyotrichum ericoides* (L.) Nesom		7029.200
132	*Myosotis arvensis* (L.) Hill		
133	*Linnaea borealis* L. ssp. *americana* (Forbes) Hultén ex Clausen		7029.155
134	*Veronica persica* Poir.		
135	*Lupinus polyphyllus* Lindl. var. *polyphyllus*		
136	*Sedum acre* L.		7029.057
137	*Spiranthes cernua* (L.) L.C. Rich.		7029.017
138	*Spiranthes ochroleuca* (Rydb.) Rydb.		
139	*Apocynum androsaemifolium* L.		7029.122
140	*Euphrasia nemorosa* (Pers.) Wallr.		
141	*Lechea intermedia* Leggett *ex* Britt. ssp. *juniperina* (Bickn.) B. L. Robins.		
142	*Hemerocallis fulva* (L.) L.		
143	*Saponaria officinalis* L.		7029.036
144	*Pseudognaphalium obtusifolium* (L.) Hilliard & Burtt		7029.192
145	*Lilium lancifolium* Thunb.		7029.006
146	*Ornithogalum umbellatum* L.		7029.007
147	*Aquilegia vulgaris* L.		7029.042
148	*Aquilegia vulgaris* L.		7029.042
149	*Aquilegia vulgaris* L.		7029.042
150	*Rubus hispidus* L.		7029.061
151	*Campanula persicifolia* L.		
152	*Verbascum thapsus* L.		7029.141
153	*Phedimus spurius* (Bieb.) 't Hart		7029.056
154	*Chenopodium* sp.	fragment	
155	*Saponaria officinalis* L.		7029.057
156	*Anaphalis margaritacea* (L.) Benth. & Hook. f.		7029.180
157	*Ageratina altissima* (L.) King & H.E. Robins.		7029.194
158	*Cerastium strictum* L.		7029.030
159	*Cerastium fontanum* Baumg.		7029.029

CMBG-assigned number	Scientific name	Specimen condition issue	Tam image accession number
160	*Myosotis scorpioides* L.		7029.128
161	*Myosotis scorpioides* L.		7029.128
162	*Ranunculus cymbalaria* Pursh		7029.044
163	*Atriplex glabriuscula* Edmondston		
164	*Nuttallanthus canadensis* (L.) D.A. Sutton		7029.150
165	*Argentina egedii* (Wormsk.) Rydb. ssp. *groenlandica* (Tratt.) A. Löve		7029.059
166	*Hydrocotyle americana* L.		7029.107
167	*Artemisia vulgaris* L.		7029.181
168	*Galeopsis bifida* Boenn.		7029.134
169	*Arctium lappa* L.		7029.183
170	*Teucrium canadense* L.		7029.132
171	*Nabalus trifoliolatus* Cass.		
172	*Malva moschata* L.		7029.085
173	*Cerastium tomentosum* L.		
174	*Scorzoneroides autumnalis* (L.) Moench		7029.223
175	*Armoracia rusticana* P.G. Gaertn., B. Mey., & Scherb.		7029.048
176	*Orobanche uniflora* L.		7029.206
177	*Thymus pulegioides* L.		7029.135
178	*Circaea alpina* L.		7029.205
179	*Lysimachia borealis* (Raf.) U. Manns & A. Anderb.		7029.215
180	*Euphorbia cyparissias* L.		7029.229
181	*Cirsium arvense* (L.) Scop.		
182	*Cirsium arvense* (L.) Scop.		
183	*Agalinis pauperucula* (Gray) Britt. var. *borealis* Pennell		7029.144
184	*Sagittaria latifolia* Willd.		
185	*Sagittaria latifolia* Willd.		
186	*Agalinis pauperucula* (Gray) Britt. var. *borealis* Pennell		7029.144
187	*Rudbeckia hirta* L. *var. pulcherrima* Farw.		7029.173
188	*Campanula* sp.		
189	*Vicia cracca* L.		7029.070
190	*Rumex* sp.	immature	
191	*Cuscuta gronovii* Willd. *ex* J.A. Schultes		7029.225
192	*Rumex pallidus* Bigelow		7029.227
193	*Dianthus armeria* L.		7029.214
194	*Asclepias syriaca* L.		7029.123
195	*Moehringia lateriflora* (L.) Fenzl		7029.213
196	*Oxalis montana* Raf.		7029.081
197	*Rosa virginiana* P. Mill.		7029.062
198	*Rosa virginiana* P. Mill.		7029.062
199	*Hypochaeris radicata* L.		7029.220

CMBG-assigned number	Scientific name	Specimen condition issue	Tam image accession number
200	*Hypochaeris radicata* L.		7029.220
201	*Geranium maculatum* L.		
202	*Iris versicolor* L.		
203	*Lysimachia terrestris* (L.) B.S.P.		7029.216
204	*Ranunculus repens* L.		7029.045
205	*Ranunculus acris* L.		7029.207
206	*Raphanus raphanistrum* L.		7029.054
207	*Campanula rapunculoides* L.		7029.167
208	*Monotropa uniflora* L.		
209	*Chamerion angustifolium* (L.) Holub		7029.096
210	*Oenothera parviflora* L.		7029.208
211	*Eupatorium perfoliatum* L.		7029.222
212	*Eupatorium perfoliatum* L.		7029.222
213	*Spiraea tomentosa* L.		7029.217
214	*Solidago sempervirens* L. var. *sempervirens*		7029.171
215	*Triadenum fraseri* (Spach) Gleason		
216	*Lycopus americanus* Muhl. *ex* W. Bart.		
217	*Lycopus uniflorus* Michx.		
218	*Mentha canadensis* L.		7029.136
219	*Cirsium vulgare* (Savi) Ten.		
220	*Gentianopsis crinita* (Froel.) Ma		7029.120
221	*Gentianopsis crinita* (Froel.) Ma		7029.120
222	*Symphyotrichum lateriflorum* (L.) A. & D. Löve		7029.211
223	*Helianthus tuberosus* L.		7029.232
224	*Odontites vernus* (Bellardi) Dumort. ssp. *serotinus* (Dumort.) Corb.		7029.145
225	*Symphyotrichum cordifolium* (L.) Nesom		7029.169
226	*Solidago bicolor* L.		7029.219
227	*Malva neglecta* Wallr.		7029.086
228	*Eurybia macrophylla* (L.) Cass.		7029.209
229	*Symphyotrichum novae-angliae* (L.) Nesom		7029.201
230	*Symphyotrichum novi-belgii* (L.) Nesom var. *novi-belgii*		7029.210
231	*Cynanchum louiseae* Kartesz & Gandhi		7029.125
232	*Raphanus raphanistrum* L.		7029.054
233	*Tanacetum vulgare* L.		7029.17
234	*Maianthemum canadense* Desf.		7029.008
235	*Lobelia cardinalis* L.		7029.157
236	*Impatiens capensis* Meerb.		7029.084
237	*Nymphaea odorata* Ait.		7029.040
238	*Diervilla lonicera* P. Mill.		7029.154
239	*Lythrum salicaria* L.		7029.095

CMBG-assigned number	Scientific name	Specimen condition issue	Tam image accession number
240	*Platanthera lacera* (Michx.) G. Don		7029.014
241	*Thalictrum pubescens* Pursh		7029.041
242	*Lathyrus japonicus* Willd. var. *maritimus* (L.) Kartesz & Gandhi		7029.231
243	*Trifolium pratense* L.		7029.067
244	*Ligusticum scoticum* L.		7029.103
245	*Pogonia ophioglossoides* (L.) Ker-Gawl.		7029.016
246	*Celastrus orbiculatus* Thunb.		7029.233
247	*Honckenya peploides* (L.) Ehrh.		7029.204
248	*Hesperis matronalis* L.		7029.050
249	*Maianthemum canadense* Desf.		7029.008
250	*Menyanthes trifoliata* L.		7029.121
251	*Trillium grandiflorum* (Michx.) Salisb.		
252	*Phlox subulata* L.		7029.162
253	*Chelidonium majus* L.		
254	*Viola sororia* Willd.		7029.093
255	*Lysimachia maritima* (L.) Galasso, Banfi, & Soldano		7029.119
256	*Angelica lucida* L.		7029.108
257	*Angelica lucida* L.		7029.108
258	*Veronica officinalis* L.		7029.143
259	*Pyrola elliptica* Nutt.		7029.114
260	*Melilotus officinalis* (L.) Lam.		7029.078
261	*Solanum nigrum* L. ssp. *nigrum*		7029.140
262	*Silene latifolia* Poir. ssp. *alba* (P. Mill.) Greuter & Burdet		
263	*Sparganium americanum* Nutt.		7029.002
264	*Cakile edentula* (Bigelow) Hook.		7029.053
265	*Echinocystis lobata* (Michx.) Torr. & Gray		7029.159
266	*Solanum dulcamara* L. var. *villosissimum* Desv.		7029.139
267	*Physalis* c.f. *heterophylla* Nees	depauperate	7029.138
268	*Raphanus raphanistrum* L.		7029.054
269	*Spiraea alba* Du Roi var. *latifolia* (Ait.) Dippel		7029.235
270	*Leucanthemum vulgare* Lam.		7029.234
271	*Triadenum fraseri* (Spach) Gleason		
272	*Anchusa azurea* P. Mill.		7029.180
273	*Aralia nudicaulis* L.		7029.099
275	*Symphyotrichum cordifolium* (L.) Nesom		7029.169
275	*Galium triflorum* Michx.		7029.163
276	*Symphyotrichum novae-angliae* (L.) Nesom		7029.201
277	*Symphyotrichum novae-angliae* (L.) Nesom		7029.201
278	*Symphyotrichum ericoides* (L.) Nesom		7029.200
279	*Coreopsis lanceolata* L.		

CMBG-assigned number	Scientific name	Specimen condition issue	Tam image accession number
280	*Anthemis cotula* L.		7029.168
281	*Chamaepericlymenum canadense* (L.) Aschers. & Graebn.		7029.109
282	*Potamogeton natans* L.		7029.003
283	*Potamogeton natans* L.		7029.003
284	*Dianthus deltoides* L.		7029.037
285	*Rhinanthus minor* L.		7029.146
286	*Tragopogon pratensis* L.		
287	*Cardamine parviflora* L. ssp. *arenicola* (Britt.) O.E. Schulz		
288	*Vaccinium macrocarpon* Ait.		7029.113
289	*Polygonatum biflorum* (Walt.) Ell.		7029.160
290	*Chamaepericlymenum canadense* (L.) Aschers. & Graebn.		7029.109
291	*Moneses uniflora* (L.) Gray		7029.112
292	*Fragaria virginiana* Duchesne ssp. *virginiana*		7029.058
293	*Lathyrus palustris* L.		
294	*Cypripedium acaule* Ait.		7029.012
295	*Vaccinium macrocarpon* Ait.		7029.113
296	*Erigeron annuus* (L.) Pers.		7029.195 7029.196
297	*Euthamia graminifolia* (L.) Nutt.		7029.175
298	*Lysimachia terrestris* (L.) B.S.P.		7029.216
299	*Plantago maritima* L.		7029.153
300	*Linaria vulgaris* P. Mill.		7029.151

Appendix 2. Untitled Tam images identified during this project

Tam image accession number	Scientific name
7029.204	*Honckenya peploides* (L.) Ehrh.
7029.205	*Circaea alpina* L.
7029.206	*Orobanche uniflora* L.
7029.207	*Ranunculus acris* L.
7029.208	*Oenothera parviflora* L.
7029.209	*Eurybia macrophylla* (L.) Cass.
7029.210	*Symphyotrichum novi-belgii* (L.) Nesom
7029.211	*Symphyotrichum lateriflorum* (L.) A. & D. Löve
7029.212	*Cirsium arvense* (L.) Scop.
7029.213	*Moehringia lateriflora* (L.) Fenzl
7029.214	*Dianthus armeria* L.
7029.215	*Lysimachia borealis* (Raf.) U. Manns & A. Anderb.
7029.216	*Lysimachia terrestris* (L.) B.S.P.
7029.217	*Spiraea tomentosa* L.
7029.218	*Scutellaria galericulata* L.
7029.219	*Solidago bicolor* L.
7029.220	*Hypochaeris radicata* L.
7029.221	*Hieracium caespitosum* Dumort.
7029.222	*Eupatorium perfoliatum* L.
7029.223	*Scorzoneroides autumnalis* (L.) Moench
7029.225	*Cuscuta gronovii* Willd. *ex* J.A. Schultes
7029.226	*Raphanus raphanistrum* L.
7029.227	*Rumex pallidus* Bigelow
7029.229	*Euphorbia cyparissias* L.
7029.230	*Drosera intermedia* Hayne
7029.231	*Lathyrus japonicus* Willd. var. *maritimus* (L.) Kartesz & Gandhi
7029.232	*Helianthus tuberosus* L.
7029.233	*Celastrus orbiculatus* Thunb.
7029.234	*Leucanthemum vulgare* Lam.
7029.235	*Spiraea alba* Du Roi var. *latifolia* (Ait.) Dippel
7029.237	*Impatiens capensis* Meerb.

Appendix 3. New county-level vouchers in need of further research to determine if growing outside of cultivation on Monhegan

CMBG-assigned number	Scientific name
279	*Coreopsis lanceolata* L.
193	*Dianthus armeria* L.
142	*Hemerocallis fulva* (L.) L.
145	*Lilium lancifolium* Thunb.
146	*Ornithogalum umbellatum* L.
289	*Polygonatum biflorum* (Walt.) Ell.
177	*Thymus pulegioides* L.
251	*Trillium grandiflorum* (Michx.) Salisb.