

## Appendix A

% Frequency	1989/90	2005 1-3	2005 1-4	2009 1-3	2009 1-4
<i>Acorus calamus</i>	0.00%	0.00%	0.00%	0.00%	0.00%
<i>Carex crinita</i>	0.00%	0.00%	0.00%	0.21%	0.16%
<i>Ceratophyllum demersum</i>	13.63%	8.96%	7.05%	13.46%	10.51%
<i>Elatine minima</i>	0.21%	0.16%	0.16%	0.00%	0.00%
<i>Eleocharis acicularis</i>	0.00%	0.16%	0.16%	0.00%	0.00%
<i>Eleocharis palustris</i>	0.21%	0.00%	0.00%	0.00%	0.00%
<i>Elodea canadensis</i>	28.09%	26.07%	30.33%	30.34%	24.96%
<i>Leersia oryzoides</i>	0.00%	0.33%	0.33%	0.21%	0.16%
<i>Lemna minor</i>	2.52%	5.41%	5.74%	12.82%	10.18%
<i>Lemna trisulca</i>	0.00%	0.00%	0.00%	0.85%	0.66%
<i>Moss</i>	0.00%	0.00%	0.16%	0.00%	0.00%
<i>Myriophyllum spicatum</i>	0.00%	0.98%	0.98%	1.92%	1.48%
<i>Najas flexilis</i>	12.58%	6.07%	6.07%	6.20%	4.93%
<i>Nitella sp.</i>	1.26%	1.31%	1.31%	2.78%	2.13%
<i>Nuphar variegata</i>	0.00%	0.16%	0.16%	0.64%	0.49%
<i>Nymphaea odorata</i>	4.19%	3.93%	3.93%	12.82%	9.85%
<i>Pontederia cordata</i>	0.00%	0.00%	0.00%	0.21%	0.16%
<i>Potamogeton amplifolius</i>	0.00%	0.00%	0.00%	0.21%	0.16%
<i>Potamogeton crispus</i>	0.63%	1.15%	1.31%	4.49%	3.45%
<i>Potamogeton epihydrus</i>	0.84%	0.16%	0.16%	2.14%	1.64%
<i>Potamogeton nodosus</i>	6.08%	1.48%	1.48%	5.98%	4.60%
<i>Potamogeton pusillus</i>	9.64%	3.44%	3.44%	6.41%	4.93%
<i>Potamogeton richardsonii</i>	9.85%	6.56%	6.72%	15.17%	11.66%
<i>Potamogeton spirillus</i>	1.05%	1.15%	1.15%	1.28%	0.99%
<i>Potamogeton vaseyi</i>	0.00%	0.66%	0.66%	0.00%	0.00%
<i>Potamogeton zosteriformis</i>	2.10%	0.82%	0.82%	5.98%	4.60%
<i>Potentilla palustris</i>	0.00%	0.00%	0.00%	0.00%	0.00%
<i>Ranunculus longirostris</i>	0.00%	0.00%	0.00%	0.21%	0.16%
<i>Sagittaria latifolia</i>	0.42%	0.16%	0.16%	0.43%	0.33%
<i>Sagittaria rigida</i>	0.42%	0.33%	0.33%	1.07%	0.82%
<i>Scirpus atrovirens</i>	0.00%	0.16%	0.16%	0.00%	0.00%
<i>Scirpus validus</i>	0.21%	0.00%	0.00%	0.43%	0.33%
<i>Sparganium sp.</i>	0.84%	0.00%	0.00%	1.71%	1.31%
<i>Spirodela polyrhiza</i>	0.42%	2.46%	2.46%	3.85%	3.12%
<i>Typha angustifolia</i>	0.00%	0.16%	0.16%	0.43%	0.33%
<i>Typha latifolia</i>	0.42%	0.66%	0.66%	0.43%	0.33%
<i>Vallisneria americana</i>	11.95%	10.98%	11.15%	31.41%	24.63%
<i>Wolffia</i>	0.00%	0.98%	0.98%	3.21%	2.63%
<i>Zizania sp.</i>	0.00%	0.00%	0.00%	1.28%	0.99%
<i>Zosterella dubia</i>	7.55%	4.75%	4.92%	12.18%	9.36%

**% Frequency When Vegetated**

	<b>1989/90</b>	<b>2005 1-3</b>	<b>2005 1-4</b>	<b>2009 1-3</b>	<b>2009 1-4</b>
<i>Acorus calamus</i>	0.00%	0.00%	0.00%	0.00%	0.00%
<i>Carex crinita</i>	0.00%	0.00%	0.00%	0.41%	0.39%
<i>Ceratophyllum demersum</i>	32.99%	20.29%	18.22%	25.71%	24.71%
<i>Elatine minima</i>	0.51%	0.42%	0.42%	0.00%	0.00%
<i>Eleocharis acicularis</i>	0.00%	0.42%	0.42%	0.00%	0.00%
<i>Eleocharis palustris</i>	0.51%	0.00%	0.00%	0.00%	0.00%
<i>Elodea canadensis</i>	68.02%	67.37%	78.39%	57.96%	58.69%
<i>Leersia oryzoides</i>	0.00%	0.85%	0.85%	0.41%	0.39%
<i>Lemna minor</i>	6.09%	13.98%	14.83%	24.49%	23.94%
<i>Lemna trisulca</i>	0.00%	0.00%	0.00%	1.63%	1.54%
<i>Moss</i>	0.00%	0.00%	0.42%	0.00%	0.00%
<i>Myriophyllum spicatum</i>	0.00%	2.54%	2.54%	3.67%	3.47%
<i>Najas flexilis</i>	30.46%	15.68%	15.68%	11.84%	11.58%
<i>Nitella sp.</i>	3.05%	3.39%	3.39%	5.31%	5.02%
<i>Nuphar variegatum</i>	0.00%	0.42%	0.42%	1.22%	1.16%
<i>Nymphaea odorata</i>	10.15%	10.17%	10.17%	24.49%	23.17%
<i>Pontederia cordata</i>	0.00%	0.00%	0.00%	0.41%	0.39%
<i>Potamogeton amplifolius</i>	0.00%	0.00%	0.00%	0.41%	0.39%
<i>Potamogeton crispus</i>	1.52%	2.97%	3.39%	8.57%	8.11%
<i>Potamogeton epihydrus</i>	2.03%	0.42%	0.42%	4.08%	3.86%
<i>Potamogeton nodosus</i>	14.72%	3.81%	3.81%	11.43%	10.81%
<i>Potamogeton pusillus</i>	23.35%	8.90%	8.90%	12.24%	11.58%
<i>Potamogeton richardsonii</i>	23.86%	16.95%	17.37%	28.98%	27.41%
<i>Potamogeton spirillus</i>	2.54%	2.97%	2.97%	2.45%	2.32%
<i>Potamogeton vaseyi</i>	0.00%	1.69%	1.69%	0.00%	0.00%
<i>Potamogeton zosteriformis</i>	5.08%	2.12%	2.12%	11.43%	10.81%
<i>Potentilla palustris</i>	0.00%	0.00%	0.00%	0.00%	0.00%
<i>Ranunculus longirostris</i>	0.00%	0.00%	0.00%	0.41%	0.39%
<i>Sagittaria latifolia</i>	1.02%	0.42%	0.42%	0.82%	0.77%
<i>Sagittaria rigida</i>	1.02%	0.85%	0.85%	2.04%	1.93%
<i>Scirpus atrovirens</i>	0.00%	0.42%	0.42%	0.00%	0.00%
<i>Scirpus validus</i>	0.51%	0.00%	0.00%	0.82%	0.77%
<i>Sparganium sp.</i>	2.03%	0.00%	0.00%	3.27%	3.09%
<i>Spirodela polyrhiza</i>	1.02%	6.36%	6.36%	7.35%	7.34%
<i>Typha angustifolia</i>	0.00%	0.42%	0.42%	0.82%	0.77%
<i>Typha latifolia</i>	1.02%	1.69%	1.69%	0.82%	0.77%
<i>Vallisneria americana</i>	28.93%	28.39%	28.81%	60.00%	57.92%
<i>Wolfia</i>	0.00%	2.54%	2.54%	6.12%	6.18%
<i>Zizania sp.</i>	0.00%	0.00%	0.00%	2.45%	2.32%
<i>Zosterella dubia</i>	18.27%	12.29%	12.71%	23.27%	22.01%

**Mean Density When Present**

	<b>1989/90</b>	<b>2005 1-3</b>	<b>2005 1-4</b>	<b>2009 1-3</b>	<b>2009 1-4</b>
<i>Acorus calamus</i>	0.00	0.00	0.00	0.00	0.00
<i>Carex crinita</i>	0.00	0.00	0.00	1.00	1.00
<i>Ceratophyllum demersum</i>	2.71	2.24	2.21	2.22	2.20
<i>Elatine minima</i>	3.00	2.00	2.00	0.00	0.00
<i>Eleocharis acicularis</i>	0.00	0.00	3.00	0.00	0.00
<i>Eleocharis palustris</i>	4.00	0.00	0.00	0.00	0.00
<i>Elodea canadensis</i>	3.22	2.61	2.43	2.43	2.35
<i>Leersia oryzoides</i>	0.00	1.00	1.00	1.00	1.00
<i>Lemna minor</i>	2.08	3.15	3.20	0.25	1.92
<i>Lemna trisulca</i>	0.00	0.00	0.00	0.01	1.25
<i>Moss</i>	0.00	0.00	1.00	0.00	0.00
<i>Myriophyllum spicatum</i>	0.00	2.17	2.17	1.00	1.00
<i>Najas flexilis</i>	2.65	1.92	1.92	1.52	1.50
<i>Nitella sp.</i>	2.50	1.63	1.63	1.54	1.54
<i>Nuphar variegatum</i>	0.00	1.00	1.00	0.01	1.00
<i>Nymphaea odorata</i>	1.90	2.13	2.13	0.18	1.38
<i>Pontederia cordata</i>	0.00	0.00	0.00	1.00	1.00
<i>Potamogeton amplifolius</i>	0.00	0.00	0.00	2.00	2.00
<i>Potamogeton crispus</i>	2.33	1.43	1.38	1.52	1.52
<i>Potamogeton epihydrus</i>	3.50	1.00	1.00	1.30	1.30
<i>Potamogeton nodosus</i>	2.59	2.33	2.33	1.11	1.11
<i>Potamogeton pusillus</i>	1.80	1.57	1.57	1.27	1.27
<i>Potamogeton richardsonii</i>	2.38	1.88	1.85	1.55	1.55
<i>Potamogeton spirillus</i>	1.80	2.29	2.29	1.17	1.17
<i>Potamogeton vaseyi</i>	0.00	1.00	1.00	0.00	0.00
<i>Potamogeton zosteriformis</i>	3.00	1.40	1.40	1.54	1.54
<i>Potentilla palustris</i>	0.00	0.00	0.00	0.00	0.00
<i>Ranunculus longirostris</i>	0.00	0.00	0.00	2.00	2.00
<i>Sagittaria latifolia</i>	4.00	5.00	5.00	1.00	1.00
<i>Sagittaria rigida</i>	3.00	1.50	1.50	1.60	1.60
<i>Scirpus atrovirens</i>	0.00	1.00	1.00	0.00	0.00
<i>Scirpus validus</i>	3.00	0.00	0.00	1.00	1.00
<i>Sparganium sp.</i>	3.00	0.00	0.00	1.00	1.00
<i>Spirodela polyrhiza</i>	1.50	2.47	2.47	0.10	2.53
<i>Typha angustifolia</i>	0.00	5.00	5.00	2.50	2.50
<i>Typha latifolia</i>	3.00	2.25	2.25	1.00	1.00
<i>Vallisneria americana</i>	2.56	2.91	2.93	2.22	2.20
<i>Wolfia</i>	0.00	3.17	3.17	0.08	2.44
<i>Zizania sp.</i>	0.00	0.00	0.00	2.50	2.50
<i>Zosterella dubia</i>	1.89	1.79	1.77	1.53	1.53

**Dominance Values**

	<b>1989/90</b>	<b>2005 1-3</b>	<b>2005 1-4</b>	<b>2009 1-3</b>	<b>2009 1-4</b>
<i>Acorus calamus</i>	0.00	0.00	0.00	0.00	0.00
<i>Carex crinita</i>	0.00	0.00	0.00	0.00	0.00
<i>Eleocharis acicularis</i>	0.00	0.00	0.00	0.00	0.00
<i>Eleocharis palustris</i>	0.00	0.00	0.00	0.00	0.00
<i>Leersia oryzoides</i>	0.00	0.01	0.01	0.00	0.00
<i>Pontederia cordata</i>	0.00	0.00	0.00	0.00	0.00
<i>Potentilla palustris</i>	0.00	0.00	0.00	0.00	0.00
<i>Sagittaria latifolia</i>	0.01	0.01	0.01	0.00	0.00
<i>Sagittaria rigida</i>	0.01	0.01	0.01	0.01	0.01
<i>Scirpus atrovirens</i>	0.00	0.00	0.00	0.00	0.00
<i>Scirpus validus</i>	0.00	0.00	0.00	0.00	0.00
<i>Sparganium sp.</i>	0.02	0.00	0.00	0.01	0.01
<i>Typha angustifolia</i>	0.00	0.01	0.01	0.00	0.01
<i>Typha latifolia</i>	0.01	0.01	0.01	0.02	0.00
<i>Zizania sp.</i>	0.00	0.00	0.00	0.01	0.02
<i>Ceratophyllum demersum</i>	0.24	0.15	0.15	0.16	0.16
<i>Elatine minima</i>	0.00	0.00	0.00	0.00	0.00
<i>Elodea canadensis</i>	0.54	0.63	0.67	0.39	0.40
<i>Myriophyllum spicatum</i>	0.00	0.02	0.02	0.02	0.02
<i>Moss</i>	0.00	0.00	0.00	0.00	0.00
<i>Najas flexilis</i>	0.22	0.13	0.12	0.06	0.06
<i>Nitella sp.</i>	0.02	0.03	0.02	0.03	0.03
<i>Potamogeton amplifolius</i>	0.00	0.00	0.00	0.00	0.00
<i>Potamogeton crispus</i>	0.01	0.02	0.02	0.04	0.04
<i>Potamogeton epihydrus</i>	0.02	0.00	0.00	0.02	0.02
<i>Potamogeton nodosus</i>	0.11	0.03	0.03	0.05	0.05
<i>Potamogeton pusillus</i>	0.14	0.07	0.06	0.06	0.06
<i>Potamogeton richardsonii</i>	0.16	0.13	0.13	0.15	0.15
<i>Potamogeton spirillus</i>	0.02	0.03	0.02	0.01	0.01
<i>Potamogeton vaseyi</i>	0.00	0.01	0.01	0.00	0.00
<i>Potamogeton zosteriformis</i>	0.04	0.01	0.01	0.06	0.06
<i>Ranunculus longirostris</i>	0.00	0.00	0.00	0.00	0.00
<i>Vallisneria americana</i>	0.21	0.28	0.27	0.38	0.38
<i>Zosterella dubia</i>	0.11	0.10	0.09	0.12	0.12
<i>Lemna minor</i>	0.04	0.14	0.15	0.07	0.15
<i>Lemna trisulca</i>	0.00	0.00	0.00	0.00	0.01
<i>Nuphar variegatum</i>	0.00	0.00	0.00	0.00	0.01
<i>Nymphaea odorata</i>	0.06	0.09	0.08	0.05	0.12
<i>Spirodela polyrhiza</i>	0.01	0.06	0.05	0.03	0.05
<i>Wolffia</i>	0.00	0.03	0.03	0.02	0.04