

## Aquatic Plant Community Metrics

### Sorenson's Coefficient of Community Similarity

Sorenson's Coefficient of Community Similarity was 0.84 for 1989/90 vs. 2005, 0.84 for 1989 vs. 2009 and 0.86 for 2005 vs. 2009.

### The Floristic Quality Index

The average coefficient of conservatism ( $\hat{C}$ ) increased every year. The  $\hat{C}$  was 5.54 in 1989/90, 5.60 in 2005 and 5.61 in 2009. The FQI also increased every year. The FQI was 27.9 in 1989/90, 28.0 in 2005 and 29.3 in 2009.

### Simpson's Diversity Index

Simpson's Diversity Index decreased between 1989/90 and 2005 but then increased over both years in 2009 (Table 12).

**Table 12. Simpson's Diversity Index**

<b>1989/90</b>	<b>2005 1-3</b>	<b>2005 1-4</b>	<b>2009 1-3</b>	<b>2009 1-4</b>
0.88	0.87	0.85	0.91	0.91

### Aquatic Macrophyte Community Index

The AMCI increased from 1989/90 and 2005 and from 2005 to 2009 (Table 13). These increases were observed regardless of whether zone four was included in the analysis. This demonstrates that marginal increases in one category can translate to an overall increase in the quality of the community.

**Table 13. Aquatic Macrophyte Community Index**

		<b>Max Root Depth</b>	<b>% Veg</b>	<b>Submersed (Rel freq)</b>	<b>Exotic (Rel Freq)</b>	<b>Sensitive (Rel Freq)</b>	<b>Simpson's Div. Index</b>	<b>Taxa #</b>	<b>AMCI</b>
<b>1989/90</b>	Value	7	38.6	92.0	0.5	2.0	0.88	31	
	Scaled	3	7	8	6	3	8	10	<b>45</b>
<b>2005 1-3</b>	Value	10	44.1	78.5	2.2	0	0.88	33	
	Scaled	6	8	10	6	1	8	10	<b>49</b>
<b>2005 1-4</b>	Value	19	41.3	83.6	2.5	1.6	0.85	33	
	Scaled	10	8	10	6	3	6	10	<b>53</b>
<b>2009 1-3</b>	Value	10	52.3	78.0	4.0	4.0	0.91	32	
	Scaled	6	10	10	6	4	9	10	<b>55</b>
<b>2009 1-4</b>	Value	19	42.5	78.0	3.9	3.9	0.91	32	
	Scaled	10	8	10	6	4	9	10	<b>57</b>