

### Reading the River 2006/07

Mean Likert Responses to the Use of Classroom Technology, Teaching Strategies, Community Resources, and Field-based Investigations as a Function of Pre and Long-term Post Participation in the Workshop.

#### **To what extent have you used the following types of technology in and/or from classroom instruction?**

	Pre	Lt. Post	t-value	p-level
Wilks' Lambda (1, 7) = 2.3, p = .17				
Water quality sampling kits	2.0	2.64	1.6	ns
Water study data probes	2.6	3.1	3.0	.015
Internet websites for research and support materials	4.9	4.6	1.5	ns
Microscopes	3.0	2.7	1.4	ns
Digital camera	3.5	3.4	.17	ns
GPS	1.6	1.6	0	ns

#### **Rate your use of the following:**

	Pre	Lt. Post	t-value	p-level
Wilks' Lambda (5, 5) = .53, p = .75				
Use hands-on instructional strategies	4.9	4.8	1	ns
Use inquiry-based teaching strategies	4.7	4.1	1	ns
Teaching gender and minority equity	4.0	4.4	.77	ns
Integrating the sciences in teaching	4.8	4.6	.61	ns
Integrating science as a subject with other subject areas	4.2	4.3	.18	ns

#### **Rate your use of the following community resources in your teaching:**

	Pre	Lt. Post	t-value	p-level
Wilks' Lambda (3, 8) = .19, p = .22				
Guest speakers	2.4	2.6	.80	ns
Natural environment field sites related to watershed studies	1.7	2.1	1.3	ns
Field trips to watershed related community resources sites	1.5	2.1	2.6	.03

#### **Rate your use of the following types of field-based investigations in your teaching:**

	Pre	Lt. Post	t-value	p-level
Wilks' Lambda (6, 5) = 5.9, p = .035				
Water chemistry	2.2	2.5	.76	ns
Macroinvertebrate study	1.5	2.2	3.7	.004
Habitat assessment	1.6	2.2	2.6	.03
Fish Study	1.5	1.8	1.4	ns
Plankton Collection	1.4	1.5	.56	ns
Stream Flow Rate	1.3	1.8	1.7	ns

#### **To what extent do you teach:**

	Pre	Lt. Post	t-value	p-level
Wilks' Lambda (4,5) = .75, p = .60				
About watershed topics	2.6	3.0	1.5	ns
About connections between science and real life	4.3	4.4	.56	ns
Connections between science and societal issues	4.0	4.4	1.9	.08
Connections between science and science-related careers	4.4	4.1	1.8	ns