

ATTACHMENT 5: NOAA B-WET TEACHER MWEE SURVEY

Some time ago you participated in a Meaningful Watershed Educational Experience (MWEE) professional development (PD) funded by the National Oceanic and Atmospheric Administration's Bay Watershed Education and Training program (NOAA B-WET). We would like to get your feedback on implementing MWEEs with your students, if you did so since the PD.

You will be asked about a range of practices and outcomes that represent the diversity of MWEEs, some of which may not apply directly to your experience. It is acceptable to answer "not applicable" (NA) in those instances.

Your responses will be entered anonymously and will not be associated with you as an individual. THANK YOU in advance for your candor and thoughtfulness in answering the questions. Your responses will be aggregated with other teachers' responses, and will be used by NOAA B-WET and B-WET-funded organizations to improve MWEE PD and student programs.

It will take about 20-30 minutes to complete this survey, depending on the nature of your MWEE implementation experience.

Thank you.

If you have questions about this survey, please contact Bronwen Rice, NOAA B-WET National Coordinator, Bronwen.Rice@noaa.gov

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Are you currently a PreK-12 teacher or educator?

- No
- Yes

IF NO, SKIP TO END OF SURVEY

In what setting do you teach?

- Public school
- Private school
- Non-formal education (e.g., environmental centers, zoos, museums, interpretive programs at local or state level parks, youth organizations)
- Home-school
- Other

IF NEITHER PUBLIC NOR PRIVATE, SKIP TO END OF SURVEY

To allow us to compare your past, current, and future responses, please create a unique 8-digit ID number using the 2 digits of your birth month, the 2 digits of your birth day, and the last 4 digits of most often used phone number. If you were born on March 9 and your home phone is 410.719.1234, your ID number would be 03091234.

In the past 12 months, did you implement a Meaningful Watershed Educational Experience (MWEE) with your students? MWEEs are investigative, project-oriented, sustained activities that include one or more outdoor experiences, consider the watershed as a system, and are an integral part of a school instructional program.

- No
- Yes

IF NOT, SKIP TO END OF SURVEY

How many of your students participated in a MWEE during the most recent school year? (Please provide your best estimate, NOT a range)

About ___ students

On average, did students participate in a MWEE over the course of:

- One day
- 2-6 days
- One week
- 2-3 weeks
- One month
- 2-3 months
- 4-8 months
- A full school year (about 9 months)
- A full calendar year
- Multiple years

BEFORE students participated in their outdoor learning experience:

	NA	Strongly disagree 1	2	3	4	5	6	Strongly agree 7
I provided them with detailed information about what they were going to do	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I let students know what activities they were going to do	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I spent a lot of time preparing students for what to expect	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I introduced relevant science concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

DURING the outdoor learning experience(s), my students:

	NA	Strongly disagree 1	2	3	4	5	6	Strongly agree 7
Conducted a one-time data or sample collection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conducted water quality monitoring over a period of time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

AFTER students participated in the outdoor learning experience(s):

	NA	Strongly disagree 1	2	3	4	5	6	Strongly agree 7
They discussed results based on their observations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
They offered explanations for what they observed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
They were expected to draw on what had been learned	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I spent a lot of time to make sure the students had integrated what they had learned	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

END OF OUTDOOR BLOCK

Were your typical MWEs focused only on science concepts, or on concepts from multiple disciplines (e.g., science, math, social studies, literature, art, music)?

- Only science concepts
- Concepts from multiple disciplines, including science
- Other

To what extent was the content of your students' MWEEs aligned with:

	NA	To no extent 1	2	3	4	To a great extent 5
school district education standards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
state education standards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
national education standards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
regional environmental/natural resources management priorities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Did students participate in any of the following activities to protect and/or restore ocean, coastal, and/or Great Lakes watersheds during their MWEE? (please indicate no or yes for each activity)

	No	Yes
Created a schoolyard or backyard habitat	<input type="radio"/>	<input type="radio"/>
Conserved water at school to protect the local watershed	<input type="radio"/>	<input type="radio"/>
Installed a rain barrel at school	<input type="radio"/>	<input type="radio"/>
Reduced litter at the school	<input type="radio"/>	<input type="radio"/>
Gave presentation(s) about the local watershed (e.g., for school, other organizations)	<input type="radio"/>	<input type="radio"/>
Participated in an event to raise awareness about the importance of watersheds	<input type="radio"/>	<input type="radio"/>
Helped clean up or take care of a local stream or beach	<input type="radio"/>	<input type="radio"/>
Participated in a restoration activity (e.g., planting trees) to benefit watersheds	<input type="radio"/>	<input type="radio"/>
Told others about ways they can protect their local watersheds	<input type="radio"/>	<input type="radio"/>

Were any NOAA resources used as part of MWEEs for students?

- No
- Yes

DISPLAY THIS QUESTION IF ANSWER IS YES

Which NOAA resources were used as part of your typical student MWEE?

	Not sure	No	Yes
Information from NOAA research studies or reports	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data collected by and accessible through NOAA, IF YES: Name the NOAA data source:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NOAA expert (e.g., scientist, educator, Sea Grant staff member, policy expert)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NOAA curricula and education programs, IF YES: Name the curricula or programs:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NOAA labs or facilities, IF YES: Name the lab or facility:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NOAA National Marine Sanctuary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NOAA National Estuarine Research Reserve	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What education methods were used during your students' MWEEs? (select No or Yes for each method)

	No	Yes
Outdoor field trip (i.e., excursion to learn about natural history and ecology in the outdoors, may or may not include data collection)	<input type="radio"/>	<input type="radio"/>
Field work (i.e., scientific study carried out somewhere other than in a classroom/laboratory, includes data collection)	<input type="radio"/>	<input type="radio"/>
Place-based education (i.e., an interdisciplinary instructional strategy that uses the local environment and community as the context for teaching and learning)	<input type="radio"/>	<input type="radio"/>
Scientific-inquiry-based learning (i.e., an instructional strategy that gives students the opportunity to explore an idea or question. To arrive at an answer or to better understand the concept, students often collect and analyze data)	<input type="radio"/>	<input type="radio"/>
Issue investigation (i.e., an interdisciplinary instructional strategy that engages learners in investigating complex, real-world environmental issues and problem-solving as the context for teaching and learning)	<input type="radio"/>	<input type="radio"/>
Service learning (i.e., an instructional strategy that integrates meaningful community service with instruction and reflection to enrich the learning experience, teach civic responsibility, and strengthen communities)	<input type="radio"/>	<input type="radio"/>

DISPLAY THIS QUESTION IF ANSWER YES TO SCIENTIFIC INQUIRY ABOVE

Which of the following steps did you engage students in...

	No	Yes
Formulating scientific questions they can answer using data	<input type="radio"/>	<input type="radio"/>
Making predictions or hypotheses	<input type="radio"/>	<input type="radio"/>
Collecting data or using existing data	<input type="radio"/>	<input type="radio"/>
Analyzing and interpreting data	<input type="radio"/>	<input type="radio"/>
Making conclusions and adjusting predictions/hypotheses	<input type="radio"/>	<input type="radio"/>
Developing presentations of their findings	<input type="radio"/>	<input type="radio"/>

As a result of participating in my typical MWEs, students are more likely to _____ to protect and/or restore ocean, coastal, and/or Great Lakes watersheds.

	NA	Strongly disagree 1	3	4	5	6		
Create a schoolyard or backyard habitat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conserve water at school to protect the local watershed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Install a rain barrel at school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reduce litter at the school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Give presentation(s) about the local watershed (e.g., for school, other organizations)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participate in an event to raise awareness about the importance of watersheds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Help clean up or take care of a local stream or beach	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participate in a restoration activity (e.g., planting trees) to benefit watersheds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tell others about ways they can protect their local watersheds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please describe)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

What could be done by others to help you develop and implement improved MWEs?

The questionnaire was ... (select one for each line)

	1	2	3	4	5	6	7
Difficult to complete:Easy to complete	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not informative:Informative	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Long:Short	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How can this questionnaire be improved?

Do you have any final comments you would like to share about MWEs?

Thank you for completing this survey! Please click on the Submit button below.