

2018 - NOAA B-WET PD Teacher Survey

Start of Block: Introduction

Intro This is a voluntary survey. A Word version is available to review and draft responses before completing the online survey, but final responses should be submitted online through your individual link.

Please answer the following questions in reference to your recently-completed Meaningful Watershed Educational Experience (MWEE) professional development.

MWEEs are multi-stage activities that include learning both outdoors and in the classroom, and aim to increase the understanding and stewardship of watersheds and related ocean, coastal, riverine, estuarine, and Great Lakes ecosystems of all participants. MWEE professional development (PD) provides K-12 teachers opportunities for professional development to build their confidence and capacity to implement MWEE activities with their students. MWEEs for students consist of multiple components: issue definition and background research, outdoor field activities, stewardship action projects, synthesis and conclusions. In addition, MWEEs should include teacher participation for the duration of the MWEE, be integrated with classroom curriculum, use the local context for learning, consist of a set of activities over time, and incorporate NOAA assets. (For more detail see [MWEE Definition 2018](#))

You will be asked about a range of practices and outcomes that represent the diversity of MWEE PD funded by the National Oceanic and Atmospheric Administration's Bay Watershed Education and Training program (NOAA B-WET), 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 future professional development programs.

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

Note: On some computers, you may be able to close the survey and return at a later time to the same place as long as you use the same computer and that computer will save and retain the Qualtrics survey cookie. However, note that some work and public computers do not save and/or retain cookies. Also, it will NOT be possible to return to some sections of the survey once they have been completed. Therefore, we recommend that you complete the survey in one

sitting, if possible, to avoid issues with saving your data upon returning to the survey. You may also want to review and compose your responses in a [Word version of the survey](#) before completing the survey online.

If you would like to revise your response after completing the survey, please contact Bronwen Rice , B-WET National Coordinator (Bronwen.Rice@noaa.gov) for a new link to update your answers.

Thank you.

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

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OMB PRA OMB Control Number: 0648-0658 Expires: 01/31/2019 **Paperwork Reduction Act Statement** Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other suggestions for reducing this burden to Bronwen Rice, NOAA Office of Education, Herbert C. Hoover Building, Room 6863, 14th and Constitution Avenue, NW Washington, DC 20230. Responses are voluntary and collected and maintained as anonymous data. Information will be treated in accordance with the Freedom of Information Act (5 USC 552). Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number.

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PDQ6rev19 How long ago did you complete a NOAA BWET-funded professional development focused on watersheds ?

- I did not complete a MWE professional development
 - Less than 1 week ago
 - 1-2 weeks ago
 - 3-4 weeks ago
 - 5-8 weeks ago
 - 9-12 weeks ago
 - More than 12 weeks ago
-

X→

PDMQ3 Are you currently an in-service or pre-service PreK-12 teacher or educator?

- No
- Yes

End of Block: Introduction

Start of Block: Thank you!

JS

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

End of Block: Thank you!

Start of Block: Setting

X→

PDMQ5rev In what setting do you teach primarily? (select one)

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

End of Block: Setting

Start of Block: About the teacher



UniqueID CREATE A UNIQUE ID: To allow us to compare your 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 your most often used phone number. For example, if you were born on March 9 and your home phone is 410.719.1234, your ID number would be 03091234.



PDMQ8 In what 5-digit zip code is your school located?



PDGMQ1 In which region did you teach this past year? (check one)

- California**
- Chesapeake Bay watershed** (Maryland, Virginia, Delaware, West Virginia, Pennsylvania, New York, and the District of Columbia)
- Great Lakes** (Ohio, Michigan, Indiana, Illinois, Minnesota, Wisconsin, New York, and Pennsylvania)
- Gulf of Mexico** (Texas, Louisiana, Mississippi, Alabama, and Florida)
- Hawaii**
- New England** (Maine, New Hampshire, Vermont, Massachusetts, Connecticut, and Rhode Island)
- Pacific Northwest** (Oregon and Washington)
- Other** (please describe) _____

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PDQ10rev In which grade level do you teach **primarily**? (select one)

- PreK
- Elementary
- Middle
- High
- Other, please describe _____



PDGQ2rev What subject(s) do you teach primarily? (select one)

- Science
 - Technology
 - Engineering
 - Math
 - English Language Arts
 - Social studies
 - Music
 - Fine arts
 - Multiple disciplines, including science
 - Multiple disciplines, not including science
 - Other (please describe) _____
-

PDQ50 How many years have you been an educator? (select one)

- 0 to 5 years
 - 6 to 10 years
 - 11 to 20 years
 - More than 20 years
-

Page Break _____



PDQ18 Did you conduct Meaningful Watershed Educational Experiences (MWEEs) with your students before participating in the MWEE professional development? (For an expanded definition of a MWEE, view this file: [MWEE Definition 2018](#))

No

Yes



PDQ19 What was your PRIMARY reason for participating in the MWEE professional development? (check one)

To obtain information and resources for teaching

Personal interest in the topic of the professional development

To obtain continuing education, recertification, graduate credit, or a stipend

I was required to attend

I was asked to attend

Other, please describe: _____

End of Block: About the teacher

Start of Block: About the PD

About PD Please answer all of the following survey questions based on the last NOAA B-WET-funded MWEE (watershed education) professional development you participated in.

or receive: (please select No or Yes for each type)

	No	Yes
One one-day workshop (usually 8 hours or less)	<input type="radio"/>	<input type="radio"/>
Multiple one-day workshops that take place non-consecutively	<input type="radio"/>	<input type="radio"/>
Multi-day workshop(s) that takes place over consecutive days	<input type="radio"/>	<input type="radio"/>
A college-level course	<input type="radio"/>	<input type="radio"/>
Professional development provider training (training for individuals who provide teacher professional development)	<input type="radio"/>	<input type="radio"/>
Individual teacher coaching and support (e.g., curriculum planning, shared teaching, demonstrations and/or other forms of in-school or in-field support)	<input type="radio"/>	<input type="radio"/>
Online professional development support (e.g., courses, webinars, discussion forums)	<input type="radio"/>	<input type="radio"/>



PDQ22 Over what period of time was the NOAA B-WET-funded MWEE professional development (including group and individual training and support)? (For example, if you participated in a summer workshop followed by classroom support over the entire school year, you would select 9-12 months.)

- Less than a week
- One week up to a month
- 1 to 4 months
- 5 to 8 months
- 9 to 12 months
- More than a year
- More than 2 years

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PDGQ23rev19 About how many hours of MWEE professional development and/or support did you receive over the past 12 months?

- 1-10 hours
 - 11-20 hours
 - 21-30 hours
 - 31-40 hours
 - 41-60 hours
 - More than 60 hours
-



PDGQ24rev About how many of those MWEE professional development hours did you spend outdoors?

- None
 - 1-10 hours
 - 11-20 hours
 - 21-40 hours
 - 41-60 hours
 - More than 60 hours
-



PDGQ77rev19 Did your MWEE professional development include any of the following resources from NOAA or other sources?? (check all that apply)

- Information from websites, reports, or scientific publications
- Existing data sets
- Experts or STEM professionals
- Curricula and education programs
- Labs
- Field Sites (e.g., NOAA National Marine Sanctuary or NOAA National Estuarine Research Reserve)
- None
- Don't know

Display This Question:
If PDGQ77rev19 != None, Don't know

PDGQ77rev19_txt Which specific resource was most helpful? (Please provide as much detail as possible.)

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X→



X→ X→

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Display This Question:

If PDGQ4rev19 = One day workshops (usually less than 8 hours) [Yes]

Or PDGQ4rev19 = Multiple one-day workshops that take place non-consecutively [Yes]

Or PDGQ4rev19 = Multi-day workshop(s) that takes place over consecutive days [Yes]

Or PDGQ4rev19 = A college-level course [Yes]



PDGQ80rev19 Did the workshops or classes you participated in include the following professional development practices or support?

(Please indicate No or Yes for each statement)

	No	Yes
Sharing of information and examples illustrating how other teachers have integrated MWEEs	<input type="radio"/>	<input type="radio"/>
Discussion of how teachers may be able to integrate MWEEs into their own curriculum or classroom activities	<input type="radio"/>	<input type="radio"/>
Engaging you and other participating teachers in aligning MWEEs with your school or school district standards	<input type="radio"/>	<input type="radio"/>
Participating with at least one other teacher from my school	<input type="radio"/>	<input type="radio"/>
Allowing you and other participating teachers time to plan how to implement MWEEs	<input type="radio"/>	<input type="radio"/>
Engaging you and other participating teachers in activities/practices that can be used with your students	<input type="radio"/>	<input type="radio"/>
Discussion of how data can be used to support scientific inquiry	<input type="radio"/>	<input type="radio"/>

Display This Question:

If PDGQ80rev19 = Yes

Carry Forward Selected Choices from "PDGQ80rev19"



PDQ30rev19 Which of these practices or support was most valuable for preparing you to teach MWEEs? (select up to 3)

- Sharing of information and examples illustrating how other teachers have integrated MWEEs
- Discussion of how teachers may be able to integrate MWEEs into their own curriculum or classroom activities
- Engaging you and other participating teachers in aligning MWEEs with your school or school district standards
- Participating with at least one other teacher from my school
- Allowing you and other participating teachers time to plan how to implement MWEEs
- Engaging you and other participating teachers in activities/practices that can be used with your students
- Discussion of how data can be used to support scientific inquiry

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PDGQ31rev Did the MWEE professional development include the following practices or support? (Please indicate No or Yes for each statement)

	No	Yes
Assistance with conducting field trips or field work	<input type="radio"/>	<input type="radio"/>
Assistance with stewardship projects, e.g., restoration projects, building schoolyard habitats, etc.	<input type="radio"/>	<input type="radio"/>
Co-teaching in my classrooms or in field	<input type="radio"/>	<input type="radio"/>
Coaching in my classroom	<input type="radio"/>	<input type="radio"/>
Demonstrations in my classroom	<input type="radio"/>	<input type="radio"/>
Assistance with the use of equipment or technologies	<input type="radio"/>	<input type="radio"/>
Communicating one-on-one with provider through phone calls or email	<input type="radio"/>	<input type="radio"/>
Communication with other teachers through a provider-supported online environment	<input type="radio"/>	<input type="radio"/>
Connections were made to local community organizations and resources	<input type="radio"/>	<input type="radio"/>
Interactions were facilitated with natural resource professionals	<input type="radio"/>	<input type="radio"/>
I was provided with equipment	<input type="radio"/>	<input type="radio"/>
I was provided with instructional/educational/curriculum materials	<input type="radio"/>	<input type="radio"/>
I was provided with information on how to obtain grants or funding for MWEEs	<input type="radio"/>	<input type="radio"/>

Display This Question:

If PDGQ31rev = Yes

Carry Forward Selected Choices from "PDGQ31rev"



PDQ32rev Which of these practices or support was most valuable for helping you to conduct MWEEs? (select up to 3)

- Assistance with conducting field trips or field work
- Assistance with stewardship projects, e.g., restoration projects, building schoolyard habitats, etc.
- Co-teaching in my classrooms or in field
- Coaching in my classroom
- Demonstrations in my classroom
- Assistance with the use of equipment or technologies
- Communicating one-on-one with provider through phone calls or email
- Communication with other teachers through a provider-supported online environment
- Connections were made to local community organizations and resources
- Interactions were facilitated with natural resource professionals
- I was provided with equipment
- I was provided with instructional/educational/curriculum materials
- I was provided with information on how to obtain grants or funding for MWEEs

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PDGQ81rev Did the MWEE professional development include the following incentives or support? (Please indicate No or Yes for each statement)

	No	Yes
I was provided with a stipend	<input type="radio"/>	<input type="radio"/>
I was offered continuing education credits	<input type="radio"/>	<input type="radio"/>
I was offered graduate credits	<input type="radio"/>	<input type="radio"/>
Other incentive or support (please describe)	<input type="radio"/>	<input type="radio"/>

Display This Question:

If PDGQ81rev = Yes

Carry Forward Selected Choices from "PDGQ81rev"



PDQ34rev19 Which of these incentives or support was most valuable in enabling you to participate in this professional development? (**select one**)

- I was provided with a stipend
- I was offered continuing education credits
- I was offered graduate credits
- Other incentive or support (please describe)

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PDGQ82rev19 Did you participate in any of the following stewardship activities during your MWEE professional development? (select all categories that apply)

I did NOT participate in any stewardship activities

Watershed Restoration or Protection (e.g., create schoolyard habitat, planting trees or grasses, invasive species removal, cleanup [e.g., beach, stream, school, community), raise & release (e.g., fish, oysters, turtles), stormwater management (e.g., rain garden, paint storm drains] **Briefly describe the actions:**

Everyday Choices [e.g., reduce/reuse/recycle/upcycle, transportation (e.g., carpooling, bike riding, mass transit, walking), composting, energy conservation, water conservation] **Briefly describe the actions:** _____

Community Engagement [e.g., outreach, presentations, social media, messaging at community events/fairs/festivals, event-organizing, mentoring, PSAs, flyers, posters] **Briefly describe the actions:** _____

Civic Action [e.g., town meetings, voting, writing or meeting with elected officials/decision makers] **Briefly describe the actions:**

Other **Briefly describe the actions:**

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PDQ36rev19 Did your B-WET professional development provider indicate that it was funded (in part) by the National Oceanic and Atmospheric Administration (NOAA)?

No

Yes

PDQ37rev19 Overall, what grade would you give your MWEE professional development experience? (choose one)

- A
- B
- C
- D
- F

Grade_Txt Briefly describe why you selected this grade.

End of Block: About the PD

Start of Block: Outcomes



PDQ83rev19 For each statement, select one response for BEFORE and one response for AFTER the MWEE professional development.

	BEFORE the professional development, I was able to:						AFTER the professional development, I am able to:							
	Strongly disagree 1	2	3	4	5	6	Strongly agree 7	Strongly disagree 1	2	3	4	5	6	Strongly agree 7

Identify my local watershed(s)

Describe how watersheds are connected to the ocean via streams, rivers, and human-made structures

Identify the functions of a watershed

Recognize how humans and natural processes impact the health of watersheds

Recognize how watersheds can affect human health

Identify stewardship actions individuals can take to protect or restore watersheds

Take stewardship

actions to
protect or
restore
watersheds



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PDGQ84rev19 For each statement, select one response for BEFORE and one response for AFTER the MWEE professional development.

	BEFORE the MWEE professional development, how confident <u>were</u> you in your ability to:						AFTER the MWEE professional development, how confident <u>are you</u> in your ability to:							
	Not at all confident 1	2	3	4	5	6	Extremely confident 7	Not at all confident 1	2	3	4	5	6	Extremely confident 7

Teach my students about local watersheds

Incorporate MWEEs into my curriculum

Implement MWEEs without support from a professional development provider

Use NOAA resources to enhance my students' MWEE experiences

Guide students through taking stewardship actions

Research environmental issues affecting watersheds with students

Use scientific inquiry instruction

Use the outdoors for instruction

Use local community resources as part of

instruction

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PDGQ84_intrev19 Select one response for each statement.

During the next school year, I intend to:							
Strongly disagree 1	2	3	4	5	6	Strongly agree 7	

Teach my students about local watersheds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Incorporate MWEEs into my curriculum	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Implement MWEEs without support from a professional development provider	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use NOAA resources to enhance my students' MWEE experiences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Guide students through taking stewardship actions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research environmental issues affecting watersheds with students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use scientific inquiry instruction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use the outdoors for instruction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use local community resources as part of instruction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



PDQ59 About how many of your students will participate in a MWEE during the next school year? (Please provide your best estimate, NOT a range)

About ___ students _____

End of Block: Outcomes

Start of Block: Feedback

Bestrev19_Txt What component(s) of the MWEE professional development best prepared you to teach your students about local watersheds?

Improvrev19_Txt How could the MWEE professional development be improved to better prepare teachers to teach about watersheds?

PD Cmmnts Do you have any other comments about the MWEE professional development?

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PDGMQ74 This questionnaire was (choose one for each line)

	1	2	3	4	5	6	7	
Difficult to complete	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Easy to complete
Long	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Short

ImprvQ_Txt How can this questionnaire be improved?

Cmnts_Txt What final comments would you like to share?

End of Block: Feedback
