



### Waco Mammoth National Monument Visitor Use Study

Dear Visitor:

Thank you for agreeing to provide more information about your recent visit to Waco Mammoth National Monument (WMNM). Recall, we need your help in understanding the experiences and perceptions people like yourself have about WMNM. Specifically, the **study purpose** is:

To collect important information about visitor characteristics, perceptions and values, and individual uses that will inform future planning for Waco Mammoth National Monument.

Your participation is voluntary, but very important. Your responses will be reported anonymously and will inform decision making regarding management and future development at the monument. We greatly appreciate your time and effort.

Sincerely,

---

Justin Bates  
Acting Superintendent  
National Park Service

---

Christopher J. Wynveen, Ph.D.  
Project Manager  
Baylor University

### Survey Instructions and Consent

**Paperwork Reduction Act Statement:** The National Park Service is authorized by the National Park Service Protection Interpretation and Research in System (54 USC §100702).to collect this information. Your responses will aid NPS managers and planning staff in making decisions regarding visitor use and resource management at Waco Mammoth National Monument. Your response to this request is voluntary and no action may be taken against you for refusing to supply the information requested. Your responses will be anonymous. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number.

**Burden Estimate:** We estimate that this questionnaire will take about 15 minutes to complete. You may send comments concerning the burden estimates or any aspect of this information collection to: Dr. Chris Wynveen, Baylor University, One Bear Place #97313, Waco, TX 76798, 254-710-4056 (phone), [chris\\_wynveen@baylor.edu](mailto:chris_wynveen@baylor.edu) (email); or Phadrea Ponds, NPS Information Collection Clearance Officer, at [phadrea\\_ponds@nps.gov](mailto:phadrea_ponds@nps.gov) (email).

By continuing, you are indicating your informed consent to participate in this study.

**Instructions:** In this survey:

- Waco Mammoth National Monument will be referred to as “WMNM.”
- Personal Group is defined as friends and family you traveled with, **NOT** members of a tour group
- Please respond to each question by providing responses to each blank or selecting the most appropriate choice given.

1. We would like to know what sources of information you used while planning and during your trip.  
(please check all that apply)

☐ The visit was unplanned. (e.g., I/we decided to stop after seeing road signs or talking to others)

↳ **Please skip to question 3.**

| Information Source                                           | Used while planning      | Used during the trip     |
|--------------------------------------------------------------|--------------------------|--------------------------|
| Personal experience from previous visits                     | <input type="checkbox"/> | <input type="checkbox"/> |
| WMNM website (www.nps.gov/waco)                              | <input type="checkbox"/> | <input type="checkbox"/> |
| Other websites                                               | <input type="checkbox"/> | <input type="checkbox"/> |
| Inquiry to WMNM via phone, email, mail                       | <input type="checkbox"/> | <input type="checkbox"/> |
| Social media                                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| Friends or relatives                                         | <input type="checkbox"/> | <input type="checkbox"/> |
| Local business staff (hotels, restaurants, attractions etc.) | <input type="checkbox"/> | <input type="checkbox"/> |
| Other people in local communities                            | <input type="checkbox"/> | <input type="checkbox"/> |
| Tour book or visitor guides                                  | <input type="checkbox"/> | <input type="checkbox"/> |
| Visitor or Tourist information centers                       | <input type="checkbox"/> | <input type="checkbox"/> |
| Magazine or newspaper articles                               | <input type="checkbox"/> | <input type="checkbox"/> |
| Hotel information brochure kiosks                            | <input type="checkbox"/> | <input type="checkbox"/> |
| Other (please specify: _____)                                | <input type="checkbox"/> | <input type="checkbox"/> |

2. If you were unable to obtain information you needed before your visit, please tell us what information was not available.

3. How did your visit to WMNM fit into your travel plans? (*please select one*)

- ☐ WMNM was my primary or only destination
- ☐ WMNM was one of several destinations
- ☐ I was passing through the Waco area to my primary destination, which was:

\_\_\_\_\_

4. Was every member of your personal group (i.e., friends and family you traveled with, as opposed to a tour group) a resident of the WMNM **area** (within a 60-mile radius)?

☐ No      ☐ Yes

5. Did you stay away from home, in the Waco area (within 60 miles of Waco), during your visit to the WMNM area? *Please select the most appropriate response.*

- ☐ No, my home is within the Waco area.
- ☐ No, I stayed outside the Waco area (more than 60 miles away from Waco).
- ☐ Yes, I stayed in a hotel, motel, B&B, or short-term-vacation-rental in the Waco area.
- ☐ Yes, I stayed at a private or public campground in the Waco Area.
- ☐ Yes, I stayed at the residence of friends or relatives in the Waco area.
- ☐ Yes, I stayed in the Waco area at another location (Please specify: \_\_\_\_\_)

6. On this trip, what other Waco attractions did you visit? *Please check all that apply.*

- ☐ Baylor University
- ☐ Cameron Park Zoo
- ☐ Extraco Events Center event
- ☐ Hawaiian Falls Waterpark

**Shopping, Food, and Beverage**

- ☐ Area vineyard, distillery, or brewery
- ☐ Homestead Craft Village
- ☐ Magnolia Market at the Silos
- ☐ Other Waco shops
- ☐ Waco restaurants

**Parks and Outdoors**

- ☐ Cameron Park
- ☐ Lake Waco & Corps of Engineer Parks
- ☐ Lake Waco Wetlands

**Museums**

- ☐ Dr. Pepper Museum
- ☐ Mayborn Museum complex
- ☐ Texas Ranger Hall of Fame & Museum
- ☐ Texas Sports Hall of Fame
- ☐ Dr Pepper Museum
- ☐ Other museum or art gallery
- ☐ Other (Please specify: \_\_\_\_\_)
- ☐ None

7. Did anyone in your personal group have physical conditions that made it difficult to access or participate in WMNM activities or services?

- ☐ No → **Go to question 8.**
- ☐ Yes → If **YES**, on this visit what activities or services did the person(s) have difficulty accessing or participating in? Please be specific.

---

---

8. For each of the visitor services and facilities that your personal group used at WMNM during your visit, please complete the following:
- a) For only those services and facilities that your personal group used, please rate their **importance** to your visit on a scale of 1-5.
  - b) For only those services and facilities that your personal group used, please rate their **quality**, on a scale of 1-5.

If you did not use the service or facility, please leave the lines blank.

9. Did you participate in ranger-led programming, such as a table talk or guided tour?

☐ No → **Please, skip to Question 11**

☐ Yes

10. Thinking about that ranger-led programming, please indicate how much you agree or disagree with the following statements.

| Statement                                                                              | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree |
|----------------------------------------------------------------------------------------|-------------------|----------|----------------------------|-------|----------------|
| The ranger asked for audience participation in their program.                          | 1                 | 2        | 3                          | 4     | 5              |
| The ranger attempted to connect the story of WMNM with visitors' personal experiences. | 1                 | 2        | 3                          | 4     | 5              |
| The ranger adjusted their program to fit visitor questions and input.                  | 1                 | 2        | 3                          | 4     | 5              |
| I gained an understanding of WMNM's importance.                                        | 1                 | 2        | 3                          | 4     | 5              |
| I learned something new about the resources at WMNM.                                   | 1                 | 2        | 3                          | 4     | 5              |
| The presentation was easy to follow.                                                   | 1                 | 2        | 3                          | 4     | 5              |
| The presentation was an appropriate length.                                            | 1                 | 2        | 3                          | 4     | 5              |
| The presentation was enjoyable.                                                        | 1                 | 2        | 3                          | 4     | 5              |
| I have thought about the tour presentation since my visit.                             | 1                 | 2        | 3                          | 4     | 5              |
| I told another person about what I learned from the tour presentation.                 | 1                 | 2        | 3                          | 4     | 5              |

11. Please indicate your agreement with the statement, "Overall, I was satisfied with my visit to WMNM."

| Strongly Disagree | Disagree | Neither agree nor disagree | Agree | Strongly Agree |
|-------------------|----------|----------------------------|-------|----------------|
| 1                 | 2        | 3                          | 4     | 5              |

12. Is WMNM special or meaningful to you? If so, why?

---



---

13. If you were to visit WMNM in the future, which educational topics would you or your personal group be most interested in learning about? *Please check **all** that apply.*

- |                                                                                                   |                                                                        |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <input type="checkbox"/> The local ecosystems                                                     | <input type="checkbox"/> History of WMNM                               |
| <input type="checkbox"/> Geology                                                                  | <input type="checkbox"/> Park management issues                        |
| <input type="checkbox"/> Human history of the area                                                | <input type="checkbox"/> Birding                                       |
| <input type="checkbox"/> Natural history of the area                                              | <input type="checkbox"/> Local wildlife                                |
| <input type="checkbox"/> Night skies                                                              | <input type="checkbox"/> Other (Please specify: _____)                 |
| <input type="checkbox"/> Paleontology and related activities<br>(e.g., fossil discovery and care) | <input type="checkbox"/> Not interested in learning about these topics |
| <input type="checkbox"/> Columbian Mammoths and other<br>Pleistocene flora and/or fauna           |                                                                        |

14. If you were to visit WMNM in the future, which activities from the list below would be of interest you or your personal group? *Please check **all** that apply.* (Note: not all of these activities are currently available at WMNM).

| Future visit interest    | Activity                                                                                                       |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | Taking a guided tour of the fossil building (Dig Shelter)                                                      |
| <input type="checkbox"/> | Partaking in self-guided tours of the site                                                                     |
| <input type="checkbox"/> | Attending ranger-led talks or programs (other than the fossil building tour)                                   |
| <input type="checkbox"/> | Learning from paleontology experts                                                                             |
| <input type="checkbox"/> | Viewing fossils                                                                                                |
| <input type="checkbox"/> | Participating in Junior Ranger or Junior Paleontology programs                                                 |
| <input type="checkbox"/> | Engaging in hands-on educational activities                                                                    |
| <input type="checkbox"/> | Hiking or walking                                                                                              |
| <input type="checkbox"/> | Bicycling                                                                                                      |
| <input type="checkbox"/> | Connections to trails outside of WMNM                                                                          |
| <input type="checkbox"/> | Water-based recreation (e.g., paddling, fishing)                                                               |
| <input type="checkbox"/> | Birding                                                                                                        |
| <input type="checkbox"/> | Wildlife viewing                                                                                               |
| <input type="checkbox"/> | Picnicking                                                                                                     |
| <input type="checkbox"/> | Creative arts (photography, drawing, painting, writing)                                                        |
| <input type="checkbox"/> | Volunteering                                                                                                   |
| <input type="checkbox"/> | Participating in park-sponsored special events (e.g., Fossil Day, Mammoths on the March, etc.)                 |
| <input type="checkbox"/> | Socializing with friends and or family                                                                         |
| <input type="checkbox"/> | Informal children's activities or spaces (e.g., natural playscapes and exhibits designed for younger children) |
| <input type="checkbox"/> | Other activities (Please specify) _____                                                                        |

15. If you were a manager planning for the future of WMNM, what would you do to attract new visitors or encourage repeat visitation?

---



---

16. Please rate your level of concern for the following impacts on resources and visitor experiences in WMNM. (Select one number for each item.)

| Impact                                   | Not at all concerned | Slightly concerned | Moderately concerned | Very concerned | Extremely concerned |
|------------------------------------------|----------------------|--------------------|----------------------|----------------|---------------------|
| Visitor noise                            | 1                    | 2                  | 3                    | 4              | 5                   |
| Visitor litter                           | 1                    | 2                  | 3                    | 4              | 5                   |
| Visitors with pets                       | 1                    | 2                  | 3                    | 4              | 5                   |
| Too many other visitors (i.e., crowding) | 1                    | 2                  | 3                    | 4              | 5                   |
| Eroding soils                            | 1                    | 2                  | 3                    | 4              | 5                   |
| Disturbing native animals                | 1                    | 2                  | 3                    | 4              | 5                   |
| Disturbing native plants                 | 1                    | 2                  | 3                    | 4              | 5                   |
| Disturbing fossils                       | 1                    | 2                  | 3                    | 4              | 5                   |
| Parking and traffic inside WMNM          | 1                    | 2                  | 3                    | 4              | 5                   |
| Other (Specify: _____)                   | 1                    | 2                  | 3                    | 4              | 5                   |

17. What is the highest level of formal education you have completed? Please select **only one response**.

- |                                                                    |                                                                                  |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <input type="checkbox"/> Some high school                          | <input type="checkbox"/> College, business, vocational, or trade school graduate |
| <input type="checkbox"/> High school graduate                      | <input type="checkbox"/> Some graduate school                                    |
| <input type="checkbox"/> Some college, vocational, or trade school | <input type="checkbox"/> Master's, doctoral, or professional degree              |

18. Are you Hispanic or Latino?

- ☐ Yes
- ☐ No

19. Which of these categories best indicates your race? Answer only for yourself. Please select **one or more**.

- |                                                                    |                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> American Indian or Alaska Native          | <input type="checkbox"/> White                         |
| <input type="checkbox"/> Asian                                     | <input type="checkbox"/> Other (please specify: _____) |
| <input type="checkbox"/> Black or African American                 | <input type="checkbox"/> Prefer not to respond         |
| <input type="checkbox"/> Native Hawaiian or other Pacific Islander |                                                        |