

Appendix A: Locations Visited

All Locations Visited (n = 7,057)

| Location | Count | Percent |
|--|-------|---------|
| Arcadia Dunes Nature Preserve | 86 | 1.22 |
| Bar Lake Outlet Park | 14 | 0.20 |
| Baraga State Forest Area | 14 | 0.20 |
| Barnes County Park | 8 | 0.11 |
| Barney's Creek | 0 | 0.00 |
| Bartholomew Park, Leland | 10 | 0.14 |
| Beachwood Park | 2 | 0.03 |
| Beaver Island | 22 | 0.31 |
| Benona Township Park | 5 | 0.07 |
| Betsie Dunes (Killian) | 9 | 0.13 |
| Betsie River State Game Area | 16 | 0.23 |
| Bi-Centennial Park | 1 | 0.01 |
| Bliss Township Park | 5 | 0.07 |
| Bois Blanc and Round Island | 7 | 0.10 |
| Brimley State Park | 25 | 0.35 |
| Camp Geneva | 7 | 0.10 |
| Camp Gray | 0 | 0.00 |
| Camp Miniwanca | 1 | 0.01 |
| Cartier Park | 2 | 0.03 |
| Castle Park | 6 | 0.09 |
| Cherry Beach | 2 | 0.03 |
| Chicago Street Beach | 2 | 0.03 |
| Chinook Pier | 5 | 0.07 |
| Christmas Cove Beach Park | 8 | 0.11 |
| Claybanks Township Park | 8 | 0.11 |
| Coast Guard Park | 12 | 0.17 |
| Cook Park | 0 | 0.00 |
| Covert Township Park | 9 | 0.13 |
| Cy Clark Memorial Nature Sanctuary | 0 | 0.00 |
| DePersia South Highlands Nature Preserve | 0 | 0.00 |
| Douglas Beach Park | 17 | 0.24 |
| Duck Lake State Park | 53 | 0.75 |
| Duncan Woods Park | 1 | 0.01 |

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| Dunes Parkway | 3 | 0.04 |
| Eagle Harbor Red Pine Dunes | 7 | 0.10 |
| Eagle Harbor Twp Coastal Recreation Area | 13 | 0.18 |
| Elberta Beach | 15 | 0.21 |
| Elberta Dunes South Natural Area | 11 | 0.16 |
| Elisabeth Parr Nature Preserve | 0 | 0.00 |
| Elk's Park | 4 | 0.06 |
| Empire Beach Park | 81 | 1.15 |
| Ferrysburg Nature Preserve | 4 | 0.06 |
| Fischer Preserve | 0 | 0.00 |
| Fisher Nature Preserve | 0 | 0.00 |
| Fishermans Island State Park | 49 | 0.69 |
| Fort Michilimackinac State Park | 55 | 0.78 |
| Fox Island | 1 | 0.01 |
| Gaylord State Forest Area | 8 | 0.11 |
| George Hite Dunes and Marshes Preserve | 3 | 0.04 |
| Glenlord Park | 1 | 0.01 |
| Grace Youth Camp Nature Area | 1 | 0.01 |
| Grand Haven City Beach | 77 | 1.09 |
| Grand Haven State Park | 229 | 3.25 |
| Grand Mere State Park | 55 | 0.78 |
| Grebe Park | 1 | 0.01 |
| Green Point Dunes | 8 | 0.11 |
| Hagar Township Park | 6 | 0.09 |
| Harbert Road Beach | 1 | 0.01 |
| Hatton Park | 0 | 0.00 |
| Headlands International Dark Sky Park | 18 | 0.26 |
| Hiawatha Forest, Ottawa County | 17 | 0.24 |
| Historic Ottawa Beach Parks | 8 | 0.11 |
| Holland State Park | 268 | 3.80 |
| Houdek Dunes Natural Area | 3 | 0.04 |
| Indiana Dunes National Lakeshore | 24 | 0.34 |
| Keweenaw County Park | 22 | 0.31 |
| Kimball Wildlife Preserve | 0 | 0.00 |
| Kirk Park | 33 | 0.47 |
| Kitchel/Lindquist/Hartger Dunes Preserve | 8 | 0.11 |
| Knoll Park | 0 | 0.00 |
| Kouw Park | 4 | 0.06 |
| Kramer Preserve | 0 | 0.00 |
| Kruse Park | 5 | 0.07 |
| Lake Bluff Audubon Center | 4 | 0.06 |

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| Lake Harbor Park | 9 | 0.13 |
| Lake Michigan Park | 20 | 0.28 |
| Lake Street Beach | 3 | 0.04 |
| Laketown Township Park | 22 | 0.31 |
| Leelanau State Park | 59 | 0.84 |
| Lighthouse West Natural Area | 5 | 0.07 |
| Lincoln Township Beach | 1 | 0.01 |
| Linear Berm Park | 0 | 0.00 |
| Ludington State Park | 509 | 7.21 |
| Macatawa Park | 3 | 0.04 |
| Mackinac Island State Park | 80 | 1.13 |
| Magoon Creek Nature Preserve | 7 | 0.10 |
| Manistee National Forest | 98 | 1.39 |
| Mclain State Park | 31 | 0.44 |
| McPharlin Preserve | 0 | 0.00 |
| Mears State Park | 85 | 1.20 |
| Medbury Park | 7 | 0.10 |
| Meinert Park | 12 | 0.17 |
| Memorial Nature Preserve | 0 | 0.00 |
| Menonaqua Woods | 0 | 0.00 |
| Merganser Pond | 0 | 0.00 |
| Mineral Springs Park | 0 | 0.00 |
| Mouth of the Two Hearted River | 6 | 0.09 |
| Mt. Baldhead Park | 7 | 0.10 |
| Mt. McSauba Recreation Area | 5 | 0.07 |
| Mt. Pisgah Dunes | 5 | 0.07 |
| Mulligan's Hollow Park | 1 | 0.01 |
| Muskallonge Lake State Park | 39 | 0.55 |
| Muskegon State Park | 226 | 3.20 |
| Newberry State Forest Area | 5 | 0.07 |
| Nordhouse Dunes Wilderness Area | 109 | 1.54 |
| North Beach Park | 20 | 0.28 |
| North Lake Park | 0 | 0.00 |
| North Ottawa Dunes | 17 | 0.24 |
| North Point Nature Preserve | 10 | 0.14 |
| North Point Preserve | 0 | 0.00 |
| Orchard Beach State Park | 35 | 0.50 |
| Oriole Field | 0 | 0.00 |
| Palomita Reserve | 0 | 0.00 |
| Pere Marquette Park | 50 | 0.71 |
| Petoskey State Park | 150 | 2.13 |

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| Pictured Rocks National Lakeshore | 219 | 3.10 |
| Pier Street Beach | 0 | 0.00 |
| Pine Street Beach | 0 | 0.00 |
| Pine Trails Camp | 0 | 0.00 |
| Pioneer County Park | 14 | 0.20 |
| PJ Hoffmaster State Park | 220 | 3.12 |
| Point Betsie | 31 | 0.44 |
| Port of Cross Village Park | 6 | 0.09 |
| Redwyn's Dunes | 1 | 0.01 |
| Roadside Park, Hagar Twp | 1 | 0.01 |
| Ross Coastal Plain Marsh | 1 | 0.01 |
| Rosy Mound Natural Area | 42 | 0.60 |
| Round Lake | 2 | 0.03 |
| Ryan Preserve | 1 | 0.01 |
| Saugatuck Dunes State Park | 249 | 3.53 |
| Sault Ste. Marie State Forest | 18 | 0.26 |
| Shingleton State Forest Area | 1 | 0.01 |
| Shurtleff Preserve | 1 | 0.01 |
| Silver Lake State Park | 589 | 8.35 |
| Sleeping Bear Dunes National Lakeshore | 1132 | 16.04 |
| Summit Township Park | 5 | 0.07 |
| Tahquamenon Falls State Park | 105 | 1.49 |
| Traverse City State Park | 102 | 1.45 |
| Tunnel Park | 52 | 0.74 |
| Van Buren State Park | 178 | 2.52 |
| Van Buren Street Dunes, Ottawa County Forest Reserve | 8 | 0.11 |
| Warren Dunes State Park | 334 | 4.73 |
| Warren Woods State Park | 23 | 0.33 |
| Weislik Preserve | 1 | 0.01 |
| Weko Beach, Bridgman | 31 | 0.44 |
| West Side County Park | 22 | 0.31 |
| Wilderness State Park | 140 | 1.98 |
| Woods and Dunes Nature Preserve, Benona Twp | 1 | 0.01 |
| Other | 489 | 6.93 |

Appendix C

Open-Ended Comments of Respondents to the #HowYouDune Coastal Dunes Survey (Unedited)

1. My main concerns are the fact that we are losing our Lake Michigan beaches to erosion and that people don't take care of picking up their own trash on the beaches, trails, and campground sites.
2. need have more areas that you can access with ORV and snowmobiles
3. We love the Sanddunes for riding recreational orv's and we also enjoyed the trail system that Michigan has for orv's and snowmobiles.
4. We visit silver lake state park several times a year for the opportunity of off-roadIng recreation. I would certainly hope that this will continue to be something my family can enjoy.
5. -the dog friendly aspect is amazing (critical for me) but I saw DNR officers enforcing the boundary in a mean way - officer yelled at a woman who was just trying to go to the bathroom and had her dog with her (it was not misbehaving).
6. A few things bothering me this year is the trespassing on the Northwestern corner of the Dunes.
7. A valued treasure; to be loved and protected
8. access to waterfalls, access to be able to see the coastline
9. Additional camping space needed. I have been unable to get in to several favorite parks in the last few years.
10. Also visited Ludington state park - This is the best state park in Michigan. I plan on visiting Holland and Ludington state parks in 2018.
11. Although I put the state as protector of these dunes, I do not trust the present administration to do right. The Republicans are only interested in the bottom line and not anything that impacts on their love of numbers.\$\$
12. Always love our trips to the west side of the state.
13. Amazing experience outside of the HUGE amounts of poison ivy everywhere!!
14. Appreciate NPS interpretive programs and non profit conservation efforts. There is a need to monitor overuse.
15. Arcadia Dunes/GTRLT is brilliant. Their management plan is also brilliant. The Natl. Lake Shore created by the Feds was a brilliant action. Michigan is STUPID for letting Nestle steal our water and allowing penned fish farming on the Au Sable river.
16. As a Boy Scout Adult Volunteer I would like to see our state provide or build more cooperative programs that involve Conservation of our Great and Pure Natural Resources.
17. As a Boy Scout leader I enjoy taking scouts to the coastal dunes for the natural beauty and conservation opportunities. As a lifelong Michigan resident I'm compelled to teach our youth to protect our state's unique and bountiful resources.
18. As a youth back in the 50's, one of my neighbors had a summer home just a little north of Empire Beach on a private road. I just love to return to the area for the memories.
19. As stated above they are "Sand Dunes" stop trying to get vegetation to grow on them and stop trying to make them into fields with grass and woods they are god damn "SAND DUNES" leave them alone and let people enjoy them in there natural state!
20. As the coastal sand dune areas experience more and more erosion from high water levels in the great lakes, management is going to become trickier and trickier. Let's all hope for lower lake levels in the very near future.
21. AuTrain beach and river need better management
22. Ban sand mining of dunes in Ludington State Park Michigan

23. Beach access is EXTREMELY important to enjoyment of this resource by all. Any attempts to limit access should be fought vigorously.
24. Beach rules were not being followed (dog on beach), maybe someone should patrol.
25. Beautiful beaches, excellent upkeep of parks
26. Beautiful place. Wish there wasn't so many steps lol but there has to be to get there. I'm just getting older
27. Beauty was awesome!
28. Because of all the goose dirt on the beaches, we hesitate to let the kids play there.
29. Because of the large Native American population in Michigan, protected space should be provided for rituals.
30. Been taking scouts to the Nordhouse Sand Dunes since 1980!
31. Believe that the Lake Michigan shoreline and the related dune areas are one of Michigan's top assets and need to be protected for future generations and for the whole health of the ecosystem in the areas.
32. Better "Policing" of visitors. People are not nice to or kind with the area and its delicate nature. Smoking, pets, children, all are very damaging to a natural place. People are careless and reckless with our natural resources.
33. Better access to South Bar Lake; the parking lot at the Empire beach is often extremely crowded and now charges a parking fee. We enjoy paddling and swimming in that lake, which is just a stone's throw from the Lake Michigan beach.
34. Better signage and roadside directions
35. Both the beach and water were beautiful. We look forward to coming back next summer!
36. Can we please treat Silver Lake sand dunes less like a fragile ecosystem and more like an off-road park? It's been used for off-roading since it was deforested. It's not at risk. It is a HUGE resource that attracts visitors and money from other states.
37. Can't wait to return!
38. cities are getting taken over by people who vacation to those country towns and demand city living. I wish we could preserve the smaller towns... I dislike vacationers out at the "gourmet ice cream store" or high priced restaurant.
39. clean weeds, grass & junk on beach. Wilderness State Park former beautiful beach now overgrown with weeds, brush, trees so tall you can't see the shoreline from the lake lots. Should be groomed like Grand Haven.
40. Coastal dunes are Michigan's greatest natural treasure and must be protected to the greatest extent possible.
41. Coastal dunes have been a huge part of my life for almost 70 years. My family took me. We have taken our children and now we enjoy the coastal parks with grandchildren.
42. Coastal housing development in critical dunes in our area is out of control!
43. Coastal Michigan is the most beautiful place in America and it's my favorite place of all, anywhere. It's a treasure and must be protected for all to enjoy.
44. Crisp point lighthouse is very beautiful but quite a drive to get to! The waterfalls in Michigan are amazing, I never realized besides Taquemon falls how many there were! I still have lots I have to see yet on my next visit!
45. DNR needs to move sand from encroaching dunes to the beach area to slow or stop the erosion. The dunes & lighthouse beach aren't so full of weeds, wood, debris. People cottages are being buried while the beach disappears
46. Do not develop these areas. Keep them as scenic, educational places for generations to come.
47. Don't close all these areas off. Let people enjoy them.
48. Don't make this survey so long and complicated. You lost my interest in helping out after about the 12th question. Also, make sure your site works - I was unable to scroll to find

- Nordhouse Dunes when it asked me what other park I had visited.
49. Dune grass & weeds Holland St Park Beach campsites is not natural and is not easy to walk in. You also no longer have life guards on a beach where people die each year. Sea trash is terrible and needs to be cleaned more often.
 50. Dunes and beach not accessible by person with difficulty walking
 51. Dunes need to be preserved, not wasted or turned in to more housing!
 52. Enjoyed our brief stay at Warren Dunes
 53. Environmental considerations are the most important in preserving the dunes.
 54. Everything was better before they planted all the useless dune grass
 55. Expand the lunch ramp at Silver Lake . Two launch ramp is just not enough
 56. Federal Government is too restrictive in Pictured Rocks, there are not enough access and camping options for the public. State makes a more moderate steward of our conservation areas. Local governments should not be in charge of natural areas.
 57. Few more signs would be helpful on backroads-giving milage to towns\vilages
 58. Finding the precarious balance between peoples' access to natural treasures and protection of these ecosystems is the key to their existence now with the press of population demanding access.
 59. Finish the Sleeping Bear Bike Trail! At present there are interruptions outside of Glen Arbor heading east
 60. Fix the rest rooms at the day use area of Port Crescent state park.
 61. For many years we have thoroughly enjoyed the many wonderful areas of Michigan, both on the western coastline as well as inland. We are so fortunate to have such magnificent scenic beauty within driving distance of our home in the Chicago suburbs!
 62. Funding preservation and protection is a very high priority to family and friends.
 63. Get rid of the ticks!
 64. give more information on how the dunes are formed, and how to protect them on site.
 65. Give us more dune area to ATV/OFF Road.
 66. Going to Silver Lake State Park has been a tradition in our family for the last 19 years, sometimes we don't make it out there every year, but we all love it.
 67. Great lakes, great life <3 <3 <3
 68. Great place for camping very clean and route hiking is beautiful..thanks
 69. Great volunteers at museums in area, they obviously really care about preserving and teaching.
 70. Grew up in N Michigan (In Glennie). Return every chance I get. The National Park System is especially terrific.
 71. Handicapped access is very limited so we haven't gone in a few years. There is limited access to even overlook areas of dunes. Interested in wildflowers, birds and other nature things.
 72. harbors are great, your reservation system is confusing
 73. Have not visited but look forward to doing so. DNR does one heck of a good job
 74. Have seen eagles, osprey and many species of migratory birds in the dunes of Berrien County and hope to see them in increasing numbers .
 75. Have visited many of the state's coastal regions in both peninsulas for many years. Have many memories and wish the continuous protection of this natural resource.
 76. Haven't been to coastal dunes me in 10 years
 77. Haven't been to the dunes in the last 12 months but will be visiting them mid August
 78. Heoft is my favorite state park, even though it lost its' beach to high lake level. Also, Rogers City has desent internet and cell service.
 79. Hey what happen to non-reserverable sites? Every site site has to be reserved in advance? What

- happen to free-wheeling Americans that can and should be able to pull up to a camp ground without reservations and set up a tent for a night or two?
80. <https://survey123.arcgis.com/webclient/03a9d56a764f48d198b1b2fa2f5c79cd#>
 81. Husband was in study (U of M) in 1962 for recommendation for this area to become National Park, (Stan Cain, Professor). Conclusion: Yes, it should become a National Park!
 82. I also enjoy Silver Lake Sand Dunes, just haven't been there in the last year. I thought I it is a great place to play, I'd hate to see it closed to vehicles.
 83. I also trust non profits to safeguard the dunes. For instance WMEAC is helping to push this survey.
 84. I am concerned about the continuing sand mining that is depleting our dunes.
 85. I am concerned about the use of recreational vehicles on the sand dunes in places such as Silver Lake. We must be cautious to take care of our environment while enjoying it. If we can use the dunes in this way without causing damage it is acceptable.
 86. I am deeply enjoying the benefits of more rustic/backcountry camping opportunities in Michigan parks. It's very important to me to share my love of camping and hiking with my sons, and nothing combines it like backcountry camping.
 87. I am extremely concerned for the safety and preservation of our coastal areas as they are currently threatened by Line 5!! Not only would an oil spill decimate our tourism industry, but habitats would be destroyed for native plants and animals.
 88. I am planning to come back next year. The area astonished me with its beauty and for not being crowded.
 89. I am proud to live in our magnificent state and being able to share its beauty with my children is a great gift.
 90. I am the Administrator for FB "I Love Michigan State Parks" with over 5500 members. My wife and I try to camp at as many of the Michigan State Park as we can with my wife. Most to the trip is to enjoy on of our Great Lakes and the area around."
 91. I am very concerned about the losing of the beach and now into the dunes of the beach area of Muskegon State Park Lake Michigan Campground. How can we help?
 92. I am very concerned at the threats to the Great Lakes posed by the Trump administration.
 93. I am very passionate about the current conditions and misuse of Nordhouse. What is the plan for protecting this area, and protecting dispersed camping there?
 94. I am very pleased that Michigan has preserved Ludington State Park. Other than improvements to camping sites, restrooms, the beach house, and roads, it looks like it did many years ago. I know it will be there when my grandkids visit in the future.
 95. I believe that coastal dunes belong to everyone in the state and that there should be restrictions on building in dunal areas.
 96. I believe the sand dunes are a huge asset to Michigan and need to be protected but also allowed access to visit and enjoy so people will care about them enough to take care of them.
 97. i can understand protection to a certain degree. But mother nature is going to change it no matter what.
 98. I can use visual imagery to instantly take me back to many of these coastal dune areas, especially the Nordhouse Dunes. Their existence is extremely important to my emotional well-being and life satisfaction.
 99. I did trust the Federal government to be a responsible environmental steward until last November. I do not trust the current State government at all. I think the local government may realize how important environmental stewardship is, but I'm not sure.
 100. I didn't appreciate being charged 12 dollars on a motorcycle to view the Dune climb and Pierce Stocking drive. I thought it was outrageous amount to visit these areas
 101. I don't care for the large lakes and dunes atmosphere. I prefer secluded lakes, streams, the woods on my get aways. It is very important to keep the great Lakes ecosystem clean and

- unaltered from its natural state
102. I don't trust the feds or the state to properly protect dunes. At least, not who is in control right now.
 103. I feel that Michigan's future industries will be both intellectual and travel.
 104. i feel there is to much commercialism in certain areas that is ruining some off these areas
 105. I felt that the park entrance fee was a little pricey. We paid \$15 for an half of an hour of sight seeing. Had my 10 year old not been so excited to see the dunes, we would have turned around and not gone into the park at all.
 106. I go to Warren Dunes often and find that the litter problem on the beach is getting worse. More convenient trash recepticals might help as well as enforcing littering laws.
 107. I greatly miss the access to beach rustic camping with collective campfire. It was a memorable and unique experience for my life in midwest. I miss BIG, open & clear night sky...sleeping to sound of waves.
 108. I grew up around the sand dunes and have enjoyed them my entire life.They are beautiful and I hope many other people get a chance to enjoy the views, wildlife, and nature of the dunes. It's a beautiful place to visit.
 109. I grew up in Ludington, and live on Hamlin Lake. I would very much like to see the sand mining stop
 110. I grew up in MI, but have lived in Chicagoland since 1983. During my married life we had an RV and vacationed in nearly every MI state park. 'Pure Michigan' is so beautiful and worth any and all efforts to preserve. I want to come home!!
 111. I grew up in Port Huron. My grandfather built a cabin near Mackinaw City on the road to Wilderness State Park. We vacation every year in No. Mich. This year we explored the southern shore of Lake Superior from Whitefish point to the Porkies.
 112. I have been going to Silver Lake Sand Dunes since I was able to walk. Now that I have 2 babies of my own, my husband and I plan on taking them as much as we went when we were little. There is something about the Dunes that just melts your stress away.
 113. I have been to Sleeping Bear Sand Dunes numerous times, and enjoy it very much. Would hate to see it ruined by excessive use by "dune buggys", ORV's, dirt bikes, or other motorized vehicles.
 114. I have been traveling to the Interlochen area for 40+years! We all love it up there and almost always go to the dunes! It's so beautiful there! We all have many great memories from going there over the years! Keep up the great work!
 115. I have been visiting the Warren dunes State park since I was a sophomore in High school. My wife and I sure do miss the beach camping that was offered long ago!
 116. I have noticed in the recent years that some public areas are being sold and bought for personal use. I believe these areas should be accessible to all.
 117. I hope that MI will prioritize the protection of the dunes and other natural areas!
 118. I listed the Porcupine Mountains because the shoreline is just as beautiful as the dunes areas, and when I return it will be to see more of the waterfalls and other shoreline in the upper peninsula.
 119. I live a couple of miles from North Point Nature Preserve and go there frequently. I also visit the Sleeping Bear area, including the Manitous, regularly.
 120. I live in Ottawa County, where our county government has done an outstanding job acquiring (and maintaining) lake front property thereby providing public access to precious resources near Holland, West Olive, and Grand Haven.
 121. I love al the beauty of our state parks and appreciate greatly that they are for us to use
 122. I love Hoffmaster State Park! & Pere Marquette in MUSKEGON! I THANK GOD I WAS BORN IN WEST MICHIGAN!
 123. I love how untouched and protected they are, except by natural erosion because we love Colin

- back year after year to experience the same beauty and memories.
124. I love northern Michigan! I want to live there
 125. I love the solitude
 126. I love the state of Michigan. I really am disappointed in the size of campsites at Michigan state parks. Way to close to your neighbors.
 127. I love the West Coast and sand dunes! As a photographer, I spend a lot of time in these beautiful areas and I'd love to see the conservation or do what I can to help in that!
 128. I moved back to Michigan from Ohio because of the lakes and beaches. There are Zero in Ohio and I missed them. They are an important part of life and we prefer NO CROWDS!
 129. I pick up a lot of trash each time I visit the lake front or trails, it's depressing!
 130. I place my trust of proper stewardship of the Great Lakes dunes and ecosystem in the hands of science, and not politicians.
 131. I really appreciate that the Nordhouse Dunes are protected as a wilderness area. Keep it up!
 132. I really hope that the agencies tasked with taking care of our sand dunes and other wilderness areas will be able to continue to protect them. I really love that we have such a beautiful state with so many beautiful areas to appreciate!
 133. I said I'd trust the national government to help preserve the dunes, but I have to admit that I don't trust it under Trump's presidency.
 134. I spend 2-3 weeks in the sleeping Bear Dunes. they are very important to the Michigan tourist economy.
 135. I spent the week traveling around the state of Michigan. Camping, hiking and enjoying the outdoors. Went to Pictured Rocks which we really enjoyed. My only disappointment was the tight camping at the state campgrounds.
 136. I take it all for granted 35 years of life all near lake Michigan. Don't know what is do without the beaches and dunes I've always had from sleds in the winter to ATVS at silver lake I've always been able to enjoy the beautiful lake Michigan shoreline
 137. I think everyone in Michigan loves and takes good care of our coasts
 138. I think I under-reported the number of times we've visited the dunes-beach areas.
 139. I think it is important to keep the dunes accessible to the area residents as a high priority. Local pride is very important.
 140. I think it is managed well. Glad to see the gate pass system go away. We want to go when we want.
 141. I think more water pollution and trash control is warranted. Also, state facilities need upgraded.
 142. I think that the dunes are so very important to Michigan!
 143. I think the park rangers do an excellent job of keeping an eye on the beach area, which is important to keep it safe for everyone.
 144. I understand the state parks lost quite a bit of money with schools starting before labor day. If you have any influence with government to keep schools from starting before labor day that would be great. It is hard enough to get reservations at LSP.
 145. I used to live near the Saugatuck Dunes and would take my dogs for a walk there almost every Sunday.
 146. I visit the dunes almost daily, since I live near them.
 147. I was a ten year old living in the Leelanau Peninsula area when I heard my first Beatles song. I go back for memories--for remembrance and for sharing.
 148. I was living in Colorado for a number of years, but it is our lakes, rivers and streams that drew me back (in part). I was especially happy to see that a boardwalk was put in for handicap access to the shoreline.
 149. I was very glad to hear that the state and citizen groups were able to purchase a coastal area

- which was slated for Residential development.
150. I was very happy with all the parks we visited.
 151. I wasn't able to fix MY mistake on the survey, I wanted to show that our family has been to Muskegon State Park over 30 times this year and I forgot that we visited Silver Lake State Park, we stopped at a few others on the way up north too.
 152. I wish the lakeshore was more accessible to the public and not heading towards more private development.
 153. I would like to be able to drink a cold beer with my grilled hot dog
 154. I would hate to see the great lakes destroyed by our government. We need to save it any way we can.
 155. I would have checked federal as also trusting door dune protection until the current administration
 156. I would like more dog friendly beaches in the Ludington area
 157. I would like to have cabins where extended families can get together
 158. I would like to see a permit system put in place, like what is used in National parks for backpacking and camping. This would hopefully cut down on traffic in dune areas causing less stress on the environment.
 159. I would like to see remote, paddle accessible, campsites.
 160. I would like to see signs reminding people to pick up their trash or get a fine. Every summer I comb the Lake Michigan Shore line picking up cigarette butts, cigar butts, food wrappers, dirty diapers, zip ties, water bottles, anti-freeze jugs, etc...
 161. I would like to see support of beach clean up
 162. I would like to see the Dunes specifically and all other Federal lands kept rustic and natural. Have spent 60yrs tent camping in rustic campsites that keep me and extended family intimate with the great natural environs.
 163. I would like to see these areas continue to be protected for future generations. They are well worth the money spent to preserve them.
 164. I would really like to try and preserve what they are currently. The Manistee national forest is where I go to reset my head and to enjoy the beauty of nature.
 165. I'd enjoy learning more about the dunes and how they are formed and erosion/changes which happen yearly/daily/seasonally.
 166. I'm a former resident of Michigan. The DNR should consider a hunting/fishing license status for those born in Michigan easily provable with a birth certificate. Many return for vacation and holiday that still consider it home.
 167. I'm glad you have administered this survey. Conservation is the most important thing for me!
 168. I'm seriously concerned about the invasive species that come into our Great Lakes from other sources. We need a better way to keep them out. The Army Corps of Engineers needs to take bolder action to protect our Great Lakes.
 169. I've been traveling to Warren Dunes since my children were small. Now my daughter has children and we are going again with her daughters. This year we added my friend, her daughter and granddaughter. It's been 3 generations and all girls and we love it!
 170. I've been wanting to go up to silver lake for a couple of years now. It used to be a lot of fun when I was young. I would really like to bring my family out, but I've been told by a number of people it's a big hassle.
 171. I've enjoyed walking along the Dunes and a commercial jeep ride near Silver Lake. I plan to check out the dunes in central and western U.P.
 172. if dunes are moving and threaten private cottages you should stop that from happening.
 173. If I had my way, no motorized vehicles would be allowed anywhere near our dunes.
 174. If you choose to use my attached photograph, please list my credit: Pamela Z. Daum.

175. IMHO it is vital that as much coastal land is secured and protected from further damage and is returned to as wild a form as possible. Most importantly for the ecosystem and next for mindful recreational use.
176. In previous years we have rented dune buggy to drive dunes. We especially enjoy the city of Grand Haven. Michigan ROCKS!
177. In regards to SLSD, this is by far the most important part of Michigan's Coastal Dunes. This area has been a part of my family for 40 years and the need and use for it keeps growing. I'd like to see the parking lot expanded as this is in high demand.
178. Increase the importance ecosystems, conservation and the dynamic nature of dunes.
179. Incredible treasures which are entrusted to Michigan
180. Invasive species and development are the biggest threats to dunes that I see.
181. It is an awesome experience every time I visit the coastal dunes and realize how beautiful they are and how important it is to preserve these wonders of Michigan.
182. It is important for me that diversity of use be maintained for the dunes. I enjoy that some dunes are kept pristine and others are available for recreational use with option in between. They provide future educational opportunities
183. It is wonderful to find nice bathrooms and running water in the public park. We kayaked the Betsie River this summer and the peace from that time on the water lasted more than a week.
184. It was surprising to me that private land on the beaches extends right to the water. This is very limiting, a huge impediment to enjoying the coast line, is different from other states, and is very unfortunate.
185. It would be helpful if you place More trash containers in the area to curb litter.
186. It would be nice to have more locations where dogs are allowed to be on beach. It would also be nice if all beaches prohibited smoking
187. It would've been nice to access the sand dunes late at night to see the meteor shower.
188. It's important to keep them clean and beautiful
189. It's very important to protect these areas. I think it should be stressed more that people stay off the dunes where it is not allowed. We love Michigan parks. Sincerely, Ohio Buckeyes
190. Just hope to keep everything protected and beautiful on Michigan beaches and dunes!!!
191. Just keep the dune buggy rides available. You learn a lot about how the dunes were established.
192. Just like last year the dnr officers are not helpful they would rather waste your time. The bathrooms are filthy and it's not sanitary for children . The state holds all other facilities to a standard for health codes but do not hold themselves to one
193. Just returned from Indian Lake SP, near Manistique. Great experience. Well maintained park, clean, beautiful setting. Thank you !
194. Just talking about my visits makes me excited to go again. There is nothing like going to a beautiful fresh water beach. I enjoy all the locations I have been to and have made it a lifelong journey to enjoy many coastal areas along Lake Michigan.
195. just walking..... meditating.....napping.....finding peace
196. Keep dnr Rangers working, they are awesome and so important.
197. Keep fighting the good fight. Your efforts are appreciated.
198. Keep it clean and natural.
199. Keep the coastal / dune areas clean and open to all the public.
200. Keep the dogs off the beaches and out of the parks, please. There are myriad signs posted and owners consistently ignore them.
201. Keep the Federal Government out of the sand dune management.
202. Keep the parks pet friendly. Need more dog parks and dog beaches.
203. Keep them rustic and natural, maintain hiking trails, consider kayak launches for people with

- disabilities. Thank you for your work!
204. Keep these areas as non commercial & natural as possible. New bike trails are wonderful!!! Appreciate the well-maintained bathrooms & informative signage.
 205. Keep up the GOOD work
 206. Keep up the good work, we all benefit from what you do
 207. Keep up the good work!
 208. Keep up the good work.
 209. Keep up the good work.
 210. Keep up the good work... will vote for more funding so you can adequately do your jobs and protect our beautiful state of Michigan thank you
 211. Keep up the great work! We love our beautiful state and amazing natural resources! Wish everyone was as committed to keeping them beautiful and protected!
 212. Kill the grass its taking up the beach and we want it back!
 213. Lake Mi & her beaches are clean, & beautiful, such precious natural wonders that I hope the powers to be, protect her to the highest degree from pollutants, invasive species & corporate greed to keep them pristine for generations to come.
 214. Lake Michigan coastline has always been a special adventure for our family.
 215. Lake Michigan is very clean and a joy to swim in. Now that our children are adults, we have ventured out to other activities and places to visit. The campground we stay at is clean, safe, and well-kept.
 216. Lake Michigan's sand dunes will keep us residents of this region even though other states have much to offer.
 217. Lately, we haven't visited the dunes, because my husband was in the hospital. When we resided in Muskegon we spent weekends in a dune park.
 218. Less motorized traffic on the dunes. Far more policing of the dunes.
 219. Let's keep coastal dunes areas accessible. We have had to do battle for the right to have campfires at our beachfront campsites. Never should have happened.
 220. Life long MI resident w fond childhood memories of Sleeping Bear and surrounding area. Have shared w my children, wife and her out-of-state family. All agree on it being beautiful, unique, and a great area to visit/vacation
 221. Living close to Lake Michigan is incredibly important to me. There are many times when I NEED to be there. I never take it for granted.
 222. Lose the sound restrictions the duners bring a lot of tourism to the area because of noise the dunes and orv people were here long befor the rich people bought or built there houses north of the dunes they are ruining it for future duners.
 223. Love going to Silver Lake, we have been doing an annual trip there for 31 years! Love the Dunes, holding and everything else!
 224. Love Michigan in the summer near the water
 225. Love Our Michigan Beaches!!!
 226. Love the dune areas!!!
 227. Love the new steps at PJ Hoffmaster state park by the visitor center they are great!
 228. Love the outdoors and the dunes are fantastic. Why didn't you list South Haven as dunes?
 229. Love the Sleeping Bear Dunes area. My escape place.
 230. Love the west side of the state. Love the sand dunes Silver Lake State Park ROCKS!!!!
 231. Love visiting Michigan. Plan to live there someday.
 232. Loved ludington and would go back in a heart beat if it wasn't so far away
 233. Loved silver lake with my young boys. Sleeping Bear Dunes will be our next trip next summer

234. maintain the roads to the rustic camp sites so taller campers like truck campers, small motor homes and trailers can get through without ripping off the roof !
235. Make camping affordable and more rustic sites available
236. Make sure the Lake Michigan Recreational Area Nordhouse dunes stays rustic. It makes it a unique camping trip. We have had 3 generations of our family camp there and also hosted there for the summer a few years ago. No showers..So go jump in the Lake!
237. Management of the campgrounds has been handled by out-of-state personal. Now the gates are up in October, the best time of the year to walk the paths and enjoy the fall colors. Please keep the park open until the first of December. It is our park.
238. MI's coastlines are gorgeous and like things in nature, they need people/organizations to maintain and care for them. I like on the east side of the state but always dream of the next vacation to the west side with the sand dunes and beautiful beaches.
239. Michigan is a beautiful state. Enjoy going to various locations to float, swim, look around, bike, and ATV. Michigan has many great assets to enjoy.
240. Michigan is a great place to live and we need to protect the natural beauty.
241. Michigan is a wonderful place to live. Somehow the Federal Gov't doesn't seem to think our Native Ecosystems are important to the rest of the country. More Federal Monies should be spent on preserving the Great Lakes.
242. Michigan is awesome! Let's keep it that way. Dunes are a very unique landscape and we are very lucky in Michigan to have them. Let's continue to take care of them Thank you.
243. Michigan sand dunes mean home & freedom to me
244. Michigan state parks system does a great job. Keep up the good work.
245. Michigan's west coast is the must-go place for me during the warmer weather. I don't feel like I've enjoyed the summer unless I've been able to visit the dunes at least once. They offer a spiritual cleansing like no other place I have ever been to.
246. Money is needed to increase staffing to patrol beaches. Many infractions happen because no one is there to enforce rules. Have a no smoking policy!
247. More hike-in sites like the Jackpines in Ludington, please. Staying there was like theater.
248. More places to ride off road vehicles on the dunes. More trash cans by beach area at Silver Lake to keep beach clean.
249. More regulations regarding use of generators
250. Most state parks need updated electrical systems.
251. Muskegon doesn't get enough attention. Until the city and state do more to bring businesses and other attractions to the area Muskegon will continue to be a town on the way to somewhere else.
252. Muskegon State Park - too noisy after quiet time!!! Need better enforcement!!!
253. My answers may be skewed because we have a cottage on Silver Lake with a view of the Silver Lake State Park sand dunes. Also, I mistakenly answered twice for silver lake state park when one of them should have been Ludington State Park
254. My children and I had the time of our lives.. bathrooms are so pretty clean. Thanks for all you do!! Hedwig
255. My family and I visit the coastal dunes every summer. It is one of our favorite places to go on vacation and the dunes are beautiful. We are especially impressed with the Warren Dunes State Park. We return there every summer.
256. My family has been camping in Muskegon every summer since I was a young kid. It is my favorite place. We love swimming and taking Long Beach walks.
257. My family love to go camping together. All my 5 siblings includes me plus our spouses and children have campers or motor homes....
258. My family loves Michigan and the dunes we will be there every chance we get

259. My family moved to Florida in April of 2016. We made one last trip up to Traverse City and the sleeping bear dunes area. We hope to be back one day! It is a beautiful area and we miss our visits there.
260. My husband and I have traveled to the western parts of America, Which is beautiful, but none compare to our wonderful State, we must protect our Lakes, Dunes and Lighthouses.
261. My wife and I are building a home in the West Michigan area specifically so we can enjoy coastal sand dune areas in Michigan when we retire.
262. My wife and I have been coming to Silver lake Michigan for the pass 30 years and we liked it so much that we bought a summer place
263. My wife have vacation property and own a house which is currently being rented near Ludington and enjoy hiking in the park on park trails and off Piney Ridge.
264. Mylar balloons are a huge problem in the PJ Hoffmaster area. In a mile stretch north of the park we picked up 50 balloons in the water and on the beach. Plastic cigar tips, plastic bottle tops and other items also litter the beach.
265. Need dog areas in the parks!!!!
266. Need more acres for motorized play .
267. Need more parking at Silver Lake State Park and/or an online voucher request system. Would be more than happy to pay extra for a parking spot.
268. need to continue to move forward in protecting the ecosystem of all the great lake watershed thru education and working with diverse groups and all levels of government
269. Need to enforce more on the negligents of driving habits in the dunes
270. Need to preserve as much as possible for public use instead of all water front ending up controlled by tourism, hotels and the rich
271. Needed kayak launch sites. Peers have poor accessibility and kayak fishing and kayaking are some of the fastest growing recreational activities
272. New rules regarding campfire wood restrictions is much too restrictive. Concerned that it is simply a way for state to generate additional revenue and will add greatly to the cost.
273. Next year our plan is Silver Lake Sand Dunes.
274. No alcohol allowed at campsite? Serriously? Im an adult! I understand not on the beaches, but around the campfire? Not sure we will return... its just silly to be treated like a child when im 52 years old.
275. No follow up at is time.
276. No more development please. They ruined manistee with it.
277. NO PHONE CALLS! Please correspond by e-mail or snail mail.
278. Nordhouse Dunes has suffered tremednously from over-use and lack of enforcement of wilderness regulations. This area needs protection through management. Unlimited dispersed camping is not working. We need a permit system or designated campsites.
279. Nordhouse overrun with people who littered, glass bottles on the beach, dunes used as toilet. Disturbed to hear gunfire from some campers doing rifle target practice. Extremely loud with underage drinking. Won't go back.
280. Normally I would include the Federal Government and even State Government but I do not trust Republicans to have have any interest in the Great Lakes other than economic. I wouldn't doubt they would mine the sand if they could.
281. North Manitou Island met more than my expectations, it was gorgeous and beautifully preserved. Preservation of the environment is important to me and it was heartwarming to walk on trails and not having to look at trash people had left behind.
282. On our last day visiting, there was so much garbage in the waves coming in that we really didn't want to go in the water. It had been stormy the day before. It was very sad.
283. On our last trip to Ludington State Park, we observed a lot of plastic garbage on the beach all

- the way to the Big Sable Lighthouse and beyond. I would like to participate or help organize a clean up event.
284. Only as relates to this survey. Don't ask me to enlarge on a question and only give me 255 characters to do it. It should be open so we can say what needs to be said. The coastal areas (as well as all the areas of the state) need to be accessible
285. Open fires on the beaches at Sleeping Bear are the stupidest thing ever allowed. Half burned wood and black charcoal covering what should be pristine sand is idiotic. How bout a couple designated fire rings at each area.
286. Our big problem is that we are an older couple and access is sometimes very difficult for us.
287. Our families have been going to Ludington State park for 35 years. This year we noticed a very big increase of garbage on the beaches. It made us think about looking into other options for vacations.
288. Our lakeshore/dunes are an incredibly important part of Michigan's eco system and provide so many benefits to so many. We need to keep access open to the public and yet restrict building, traffic, and pollution, especially in sensitive areas.
289. Our lakeshores are priceless assets to the Great Lakes region and an innate part of our culture.
290. Our whole family treasures all of the parks across Michigan. We continue to visit many of them year after year to enjoy the beauty that they hold and to reflect upon what a great Michigan really is.
291. Perhaps it would be better to say that I trust an ideal federal system that provides for regulatory systems and enforcement of conservation, that I see as the role of government in acting as the steward of publicly owned lands and parks
292. Please allow more area for ORV use on dunes
293. Please consider a reservation system for popular State Forest Campgrounds. Fighting for a spot at pictured rocks really puts a damper on our vacation.
294. Please continue to keep these special places environmentally secure and beautiful and easily accessible
295. Please continue to protect our dunes & all our ecosystems for the good of the environment & enjoyment of the people of future generations.
296. please designate more areas as wilderness, along the lines of Nordhouse Dunes
297. Please do all you can to protect dunes and to keep them natural.
298. Please DO NOT ever close the dunes to vehicles!
299. Please do NOT restrict the use of the dunes in the State of Michigan!!
300. Please do whatever you are able to do and what is needed to preserve this natural beauty for future Generations. It's unbelievable, inspiring
301. Please enforce a ban on the movement of firewood. Protecting tourism is shortsighted, who is going to visit when the forests have been decimated and the dunes are barren?
302. Please enforce rules, people going in places marked off limits, causing erosion Stacking rocks making it look unnatural
303. Please establish a consistent recycling program. Your resources are too beautiful to see littered upon.
304. Please expand parking area and ORV area at Silver Lake Sand Dunes. It's becoming to congested and would greatly benefit from an expansion project.
305. Please have more rustic camping options and more hiking and mountain biking. Less paved parking lots! More hiking trails
306. Please improve the fishing opportunities for salmon in these coastal areas
307. Please improve van Buren bike trail south of south haven. It is inaccessible in some areas unless fat tire bikes. Bike trail spur to Van Buren Park is great, but the main Van Buren Trail is not usable.

308. Please keep beaches open to all! Gentrification of beach fronts and a sense of entitlement will NOT protect this amazing ecosystem.
309. Please keep motorized vehicles out
310. Please keep the coastal areas open to all, not just property owners.
311. Please keep them clean and provide clean restroom areas
312. Please keep Trump and cronies out of Michigan and protect our great resources and environment.
313. Please let us know how we can help at the Charlevoix Conservation District!
314. Please make the beach larger just north of the public beach at Mears State Park. This is where the campers go. The beach use to be huge but then after dredging the channel it was ruined for beach going. Please make this area user friendly again.
315. Please never let them ruin the place of such beauty with any type of drilling. It would break my heart!
316. Please please do not further reduce the areas of the Silver Lake State Park Sand Dunes for recreational driving use (now approx 1/4 of the entire sand dune acres).
317. Please protect our coastal and water resources for generations to come. One of the biggest reasons I live in Michigan is due to the great lakes and all that they provide to all.
318. Please protect the Saugatuck Dunes area where they are trying to build a marina.
319. PLEASE protect this unique ecosystem.
320. Please provide night viewing at the state parks. We were kicked out of Muskegon State Park and Duck Lake State Park on nights that had significant events like meteor showers and northern lights occurring.
321. Please put recycling bins at popular beach sites like many national parks do. Hate seeing all the plastic water bottles in the trash can, or worse in the dune grass or water :(
322. Please save the cottages
323. Please stop overcrowding campgrounds. Our campgrounds (and dunes) are not supposed to be money generating resources. Why does the DNR need 2017 pickup trucks to patrol the small campground areas? Squandering taxpayer dollars again!
324. Please stop the development project proposed for the Saugatuck/Singapore area.
325. Please work with Cell providers (Verizon, T-Mobile, etc) about increasing coverage in the Mears/Hart/Silver Lake Sand Dunes area.
326. Post " no glass containers allowed" in popular beach areas.
327. Prefer that dunes be limited to foot traffic instead of motorized vehicles or mining.
328. Preserve our dunes--they are so unique and valuable!
329. Preserve protect these dunes forever. Someday we will not have these types of landmarks and geography due to building and population. Keeping the dunes protected will allow future generations to enjoy and be educated on life and ecosystem.
330. Protect it as a natural environment with little to no development. The coastlines should belong to everyone, not just for the wealthy to enjoy and block views with McMansions.""
331. Protect our dunes
332. protect our lakeshore!!
333. protect the dunes
334. Protect the dunes!
335. Protect them at all costs. They are essential to Michigan's ecological diversity and recreational opportunities. They are totally unique in the world!
336. Protecting this natural resource is important for our future
337. Protection of our natural resources is a high priority for me. It is among the most important uses of federal funds. I fully support increased funding for NPS.

338. Really enjoyed touring lighthouses in Ludington, Mackinaw City, and various areas on a road trip in June. Michigan has so much to offer. It's budget friendly....
339. Regulated access trail management is necessary,
340. Restrictions by township and/or local county boards on renting properties in the costal sand dune areas. Which is about to be eliminated by Senate Bill 329 and House bill 4503.
341. Rich, greedy, selfish people have stolen my shoreline, in addition to a-hole rangers and state cops looking for their next adrenaline rush by crushing my fun. I avoid the shoreline and have purchased sand for the pool area on my private property.
342. Running up and down the sand dunes with my parents, brothers and sisters. More recently with my children and grand children and my husband. Walking the sand dunes to lake Michigan and putting my feet in the cold water.
343. Sad to see so many business shut down. I would like to see more tourism here-but RESPECTFUL tourism. I love Michigan.
344. Safety Keeping it clean
345. Save the dunes. We are responsible to protect our planet!
346. see prior comment
347. Silver Lake Sand Dunes are a Michigan treasure!
348. Silver Lake Sand Dunes would benefit from "beach cleaning"...rake to remove debris and to make beach more appealing and assesible. The beach is a VERY popular spot for visitors but the condition of the beach has deteriorated
349. Silver Lake State Park Dis our favorite...
350. Since Silver Lake is the only dune in Michigan that allows offroad vehicles. It is extremely important to keep it open, but safe for users. Parking space is the next important factor, parking seriously needs to be expanded.
351. So... PLEASE let us stop the Canadian government from potentially polluting our GREAT LAKES by stopping the construction of the radioactive dump site on Lake Huron.
352. Some state parks need a lot of facilities maintenance and updating due to severe underfunding. Beaches, particularly Holland State Park need routine cleaning to preserve and protect them
353. Someone needs to uphold the rules !! It's turning into a ZOO. Breaking glass beer bottles in the sand... Trash everywhere.... You name it. Cutting live tree's.
354. Stop selling sand from our dunes in southwest Michigan (Lake Michigan coastline) Shame on the State for permitting this!
355. Survey is buggy, have your team check out; bad user experience.
356. Survey itself could be better designed.
357. Thank yo so very much for trying to keep these beautiful spaces open the the general populace!
358. Thank you for all the hard work you do to preserve the unique biodiversity and cultural history of the coastal sand dunes, while maintaining certain areas of these magical places for the public to enjoy!
359. Thank you for building the Sleeping Bear Dunes Heritage Trail... such a fantastic resource to families visiting the area!
360. Thank you for caring so much about our beautiful state while helping to preserve and maintain our natural landscapes,resources and wildlife.
361. Thank you for protecting our precious environment
362. Thank you for taking the time,care and energy to conduct this level of research.
363. Thank you for taking the time. Your work matters. :)
364. Thank you for the opportunity to share information for this study.
365. Thank you for the work you do to preserve the dunes!
366. Thank you for your efforts - from someone who really enjoys the Michigan outdoors I

- appreciate the time and attention paid to conservation issues. My love of photography has taken me to places I didn't know existed. - Thanks again!!
367. Thank you for your work in maintaining and protecting our State Parks and natural spaces!
368. Thank you!
369. Thanks for being so friendly and helpful.
370. Thanks to everyone for taking responsibility and action to protect our precious and unique dunes
371. The area was beautiful, including the camping area. The only disappointment was the rest rooms at the beach. They were fairly disgusting.
372. The area was so well maintained and the very nice dog beach was a pleasant surprise. Dunes were a fun challenge. Beautiful area!
373. The areas are beautiful. We need to protect, cherish and make sure they are here forever, but open to all.
374. The beach area's are becoming to much grass. need more room for the beach.
375. The beach areas near north Muskegon have severely eroded. There used to be 50-60 feet of beach, now there is less than 6 in many places. Are there any plans to improve this, or just let nature take its course?
376. The beaches need more cleaning, this year there was a lot of trash on all of the beached I visited
377. the beaches on the western coast of Michigan are by far some of the prettiest we have visited and we enjoy all they have to offer! Love them!
378. The coastal areas near 49408 are our backyard. Continued dog friendly access to the lake shore is of great importance.
379. The coastal dunes need to be protected for us an future generations. I have been able to enjoy them for over 55 years. First as a young child and now as an adult.
380. The coastal sand dunes of Michigan are incredible. I couldn't find it on the list, but we also like to stop at the beaches along US2, just west of St. Ignace. We do that every time we head to Houghton.
381. The conservation of the coastal area at Sliver Lake dunes has ruined the beach, It used to be beautiful. The conservationist have destroyed that for the vehicle area
382. The DNR does a great job.
383. The DNR officers at this state park were overly aggressive in their efforts to keep the park quiet both during the day and in the evening. They were rude and harassing to most of the campers (we talked to people staying at other sites in the park)
384. The dunes and the lakefront of Lake Michigan is the most beautiful thing in our state. Something that I remember from a kid that never went away. Someday I would like to be lucky enough to live closer to it.
385. The dunes are a great setting for a beautiful wedding
386. The dunes are absolutely gorgeous!
387. The dunes are great. Fresh water rules. Please pass a tax for out of state people to pay more. Nobody is going down to Ohio and getting in their way, but they love coming up to my neighborhood and clogging things up.
388. The dunes in Michigan are an integral part of our state. We need to make sure they are protected, along with our waterways.
389. The facilities at Michigan State Parks need some investment due to age and wear and tear.
390. The grass is reclaiming all but 10 to 15 feet of beach. Not very much room
391. The Holland beach campground needs to be expanded. It is very popular. It also needs a boardwalk to the water from the campground. Other beach campgrounds are always full too. Please expand them!

392. The Holland DNR launch is one of the worst in the state, it's a sick joke. Please call me for more information (616) 239-6902
393. The Holland State Park is beautiful! I wish there wasn't a fee to visit.
394. The invasive grass has taken over the beach. We used to have several feet of beautiful white sand to enjoy!
395. The lake, hiking and parks invaluable to the state of michigan. The state and local governments need to keep these from being developed and protect the lands. Coastguard, Ottawa County Dunes and PJ Hoffmaster are an incredible asset to this state.
396. The list of programs offered should be handed out at the time of check-in at the campground.
397. The most important thing to me is the environmental preservation of these areas and the lakes themselves.
398. The most recent visit was to Warren Dunes State Park. There was trash everywhere, especially around and behind the campsites, along most of the trails, and the road and also behind the camp store!
399. The Nordhaus wilderness area is being destroyed by overuse by ignorant and/or uncaring campers who cut down live trees and do not know how to deal with their personal waste. It is truly heartbreaking. We need rangers to enforce the rules.
400. The one we visit the most is 10 min. from home. When we camp we love the shoreline. We are so lucky to live in this state. We spend a lot more money when we are camping.
401. The ones we have visited appear to be well managed & well maintained - THANKS
402. The park is breathtaking
403. The programs for jr rangers were good for kids when they were younger. But now that their young teens, need more things to do at state parks.
404. The prospect of a 'reservation only' to be able to camp is a dismal one. I believe their should always be a percentage of first come first serve sites available for transient campers like ourselves. Michigan is so beautiful and precious.
405. The rangers are brutal
406. The reason I don't trust our state and federal governments with the stewardship of state and national lands, is that they too easily cut funding to these important resources.
407. The restrooms were horrible. Some of the worst I have ever seen. I have been there twice now and it was terrible both times. I will not be going back there again.
408. The roads in the Hoeft's State Park, in Rogers City, MI are in serious need of repair and they are not putting any money into it. It is not a big sand dunes but a very beautiful area worth preserving!
409. The sand dunes are a trip my family and group of friend look forward to each yr. driving on dunes. Walking. Boating camping etc. it's one of the reasons I haven't moved out of the state of Michigan
410. The Silver Lake Sand Dunes ORV area needs to be increased substantially in size. Bottle necking the largest user group in the smallest area is dangerous and is only going to increase both the number and severity of accidents on the dunes.
411. The Silver Lake sand dunes ORV area needs to be increased substantially. Bottle necking the largest user group into the smallest area of the dunes is dangerous, and the size of the pedestrian area is absurd for it's user group.
412. The top priority should be preservation of ecologically sensitive areas.
413. There is not enough parking at the Nordhouse trail head.
414. There was so much trash it was horrible. Lots if "micro-trash". Visitors were not prepared for hiking and needed water bottles and more outdoor education about hiking conservation and how to behave in the wild.
415. There wasn't a place to indicate that we own a second home in the area we visit most frequently

- and therefore contribute to the local tax base through non homestead property taxes.
416. These areas are the greatest asset to living here in Northern Michigan. Their protection and accessibility are extremely important to our quality of life and is greatly appreciated!
 417. They need to be preserved. They promote tourism. I saw cars from 12 different states while I was there.
 418. This is my favorite spot in the world. Please do not allow them to be commercialized or destroyed.
 419. This is our 4th year in a row going to the dunes because everyone in our family can enjoy it. We ride our dune buggy, enjoy the beaches and love the beautiful views. We also love the laid back lifestyle.
 420. This is the first time I've been back in over 30 years. I like that the dunes have been made more handicap accessible with roads and walkways. In the little scenic turnout we parked in, I saw cars from 15 different states. Pure Michigan works!
 421. This survey has bugs in it. The mobile version exited out prematurely, and the desktop version skipped the second and third parts of the coastal dunes I visited.
 422. This survey is very annoying because every time you selected an answer from a drop down, the survey would jump back to the top and I would need to scroll down to continue the survey.
 423. This was our 2nd trip to Holland SP. We look forward to more in the future.
 424. this was our first visit to MI and loved it! However the handicapped access needs improving in all area's we visited.
 425. Thoroughly enjoyed Lindquist dunes when my husband and I lived in Michigan
 426. Too much money is being spent on keep the peace and not toward the facilities and natural resources
 427. Try and streamline this survey!
 428. Unfortunately there is a lot of abuse at Nordhouse Dunes by people who do not follow the rules. It is getting bad enough that a lot of the people who do follow the rules will no longer go there. Something needs to be done.
 429. Until the election of President Trump, I had confidence in the federal government's ability to manage coastal environments.
 430. Use of the trail was a fee of \$7. This was a county park.
 431. Used to visit Sleeping Bear annually for slope soaring. Havent been allowed back since the federal government sequestration in 2013. National park changed their rules on us.
 432. Very clean
 433. very critical that these areas are protected and maintained for the benefit of all and for the income it brings to our beautiful state!!
 434. Visited Sleeping Bear last year and Indiana Dunes this year. They are both wonderful places. However Michigan makes it difficult and expensive for out of state folk to visit state parks.
 435. Visiting the coastal dunes of Michigan is my favorite way to recharge my life. I have been visiting various dunes every year for 20+ years. Every time, its a different experience.
 436. Visitors to Sleeping Bear Dunes are leaving trash all over the dunes and beaches, creating trails branching off the designated trails, and doing more damage each year
 437. Warren Dunes is one of my favorite places to visit and camp. The camping facilities are excellent. I don't make it there as much as I would like. Most often I make it there in conjunction with the Apple Cider Century.
 438. Was our favorite place to go in Michigan and will be back next year. Wish there were more open areas to metal detect, since that is our go to hobby...
 439. We absolutely love and cherish the Lake Michigan and Superior coastlines and visit multiple times every year.
 440. We always love to go to Michigan beaches!! Keep up the good work!

441. We appreciate the DNR's work to preserve and protect our natural resources!
442. We are in love with Lake Michigan. We feel that the state of Michigan has done more than any other state to protect the dunes and shores of Lake Michigan. I have personally been visiting the Sleeping Bear dunes area since 1975.
443. We are particularly concerned about development that is happening in the Saugatuck Dunes area and how it will impact the area and the Saugatuck Dunes State Park.
444. We are RV campers and since we are not able to plan far in advance, coastal campground sites are usually unavailable.
445. we are so fortunate to be able to walk the Lake Mi shoreline!!!
446. We are so lucky in Michigan! In my opinion, fresh water is so much more fun than the sea. And the beauty of Michigan's coast is breathtaking. I love it here!
447. We can't seem to get reservations anymore
448. We do not camp at state parks due to the lack of water at each site. (e.g.Mears State Park) The beach at Mears and Pentwater in general have provided our family great memories.
449. We do not get to the dunes very often, but really enjoy hiking in them when we can.
450. We enjoy being able to hike and swim along the coastal dune areas. We personally feel that ATV/4 wheelers on the dunes should be very restricted or not be on the dunes at all.
451. We enjoy camping, rafting, hiking and swimming in Lakes Michigan and Superior.
452. We enjoy silver lake the most as a family. I appreciate the opportunity to fill out this survey great to feel we have a voice, thanks.
453. We enjoyed the area. It is beautiful. Our stay at P.J. Hoffmaster State Park was not as enjoyable as anticipated due to an infestation of flies.
454. We grew up in Michigan and every year return for vacation, we enjoy camping in the UP. We always go to sleeping bear and the dunes on Lake Superior..
455. We had a great time and enjoyed the parks. They are a place of beauty and a part of your country that needs to be managed and protected. We are from Canada and appreciated the opportunity to visit the ares.
456. We had a great visit!
457. We have been going to Silver Lake Sand Dunes for 10 yrs and we now can enjoy it with our son. We love it there and have many "toys" to play on the sand with.
458. We have been to the Sleeping Bear National Dunes area several times. Really enjoy the beauty of the area. 3 of us walked the trail all the way to Lake Michigan one time. Very scenic and beautiful.
459. We have camped every year since 1976 in the sleeping bear dunes area. All of it at Platte River with the exception of the two years they closed to go from rustic to electric with showers!
460. We have enjoyed our time at our state parks. They're very nice.
461. We have enjoyed the coastal sand dune areas in Michigan for generations, family members returning every year now from all over the U.S. There is no place on earth like it. Please do everything possible to preserve these treasures!
462. We have just returned to Michigan from 10 years away . We are delighted to be back and see the wildlife. We went up to Gaylord to see the city herd"
463. We have visited from Saugatuck north to St. Ignace, staying in various locations starting in February through next month; mostly at state parks, but also private rv parks and rental houses.
464. WE JUST VERY MUCH LOVE "PURE MICHIGAN". THANK YOU!!
465. We live in a critical dune area, in fact one is our backyard. The dunes are the most beautiful in the world to me and my husband. We could never live far from them.
466. We live in Lake Michigan and are concerned about invasive species both plant and animal
467. We live within 10 miles of the Channel State Park in Muskegon, Mi. and love the park. There is a lot to do and see. Lot of time for relaxation and unwind. It is close to home in case we

- forget something. Love it there.
468. We live within 3 miles of Grand Mere and 10 of Warren Dunes. It is easy for us to visit them for the afternoon or evening. We also regularly visit, local Berrien County beaches.
469. We love camping at the state parks. Ludington and Mears state parks and color tour on the west side
470. We love Grand Haven beaches. We swim, hike, camp, or stay in hotels. We enjoy the pier and lighthouse as well as viewing the dunes and Coast Guard installations. The playground is great, too.
471. We love Mi. Especially the West Side!
472. We love Michigans Sand Dunes!
473. We love our beaches. We live for visiting the water. Hiking is a major part of our family time and we LOVE Michigan for all of the outdoor opportunities.
474. we love the area and have spend many of our vacations in this area.
475. We love the area since discovering it 10+ years agi, and typically try to get over there every year.
476. We love the dunes and the beach and have chosen to live as close as we can to spend maximum time there.
477. We love the Lake Michigan coastal areas, but dogs are ruining our beautiful beaches and parks! Worst thing EVER was making Charles Mears State Park into a dog beach. It is horrible! Dogs are all over. BAD!
478. We LOVE the U.P.
479. We love this phase in our life that we can enjoy the beauty of nature and it doesn't cost much. We have seen several National Parks and will be going to the Glaciers next year.
480. WE LOVED IT THERE!!!!!!
481. We moved to MI to live very close to the dunes and nature. I have spent countless hours of late working to protect this area near Saugatuck from heedless and damaging development.
482. We moved to Michigan 6 years ago from Ontario and being able to camp and hike in dune areas is a huge reason why we have fallen in love with the state.
483. We need dog beaches. Lost interest in Michigan State parks due to lack of dog beach. We go to Canada now every other weekend, just for dog beaches
484. We need to be cautious opening up the dunes to more off road vehicles. It is dangerous enough out there to double the parking will put too many orv's out there.
485. we need to contintue to insure all people have access to our natural beauty of dunes, forests, lakes and rivers for enjoyment and relaxation.
486. We need to have invasive species management plans in place at every coastal dune.
487. We need to maintain public access will parking and shelter where feasible. as well as preservation of our natural resources
488. We need to plant more dune grass to prevent erosion
489. We need to protect it for now and all future generations. PLEASE!
490. We plan to visit Sleeping Bear dunes and that area next year. We like easy hiking trails since we are not that athletic and great places to stay.
491. We really enjoyed rock hunting on our trip and plan to visit next summer also.
492. We take advantage of the awesome Silverlake Sand Dunes quite often during the summer. We feel that the DNR has done an excellent job improving the methods to access the dunes on busy weekends. Looking forward to future improvements!
493. We try to go every few years when we visit Traverse City and I have walked then many times.
494. We use so much of the Sleeping Bear Dunes National Lakeshore! Hikidn, biking the heritage trail, kayaking sledding the fine in winter, art camps at Port Oneida within the National park in the summer! We love Leelanau!

495. We use the state campgrounds all year. Love the dunes
496. We very much me got the Michigan State Parks. Please continue to invest in them and their preservation, updating, maintenance and cleanliness.
497. We visit every year and love the facilities offered in your state parks. Your state is diverse, we have chosen to vacation and camp in your state for the last 15 years. Michigan has become our home away from home. I guess we are now Hoosierines!
498. We visit Grand Haven MI at least once a year. My husband grew up there and we own property in the city. We plan to retire in Grand Haven (summers).
499. We visited 3 areas this past summer... we enjoyed all of them. 1-South Haven / Van Buren SP 2-Barnes County Park / Traverse City & Torch Lake & Bellaire areas 3- Private Campground Pentwater & Ludington & Silver Lake areas
500. We walked to the beach to view shooting stars and was amazed at the 100 people who had the same thought. There were a half dozen high powered telescopes! Awesome
501. We would like to see more ORV options, like expanding Silver Lake. With a family member in a wheelchair, we are unable to access the dunes. Also my wife is a state licensed wildlife rehabilitator and we enjoy wildlife viewing opportunities.
502. We've only visited Silver Lake sand dunes but we absolutely love climbing them!
503. When younger went to dunes a few times.
504. While hiking, atv use, and mountain biking are all important for tourism and economy of the dunes, protection must come first. Once these are gone, they are gone. They must be respected.
505. While human use and enjoyment is important, I believe that preserving the ecology of coastal dunes is just as important, if not more
506. While in the Eagle Harbor Area, I did NOT like to see the ORV's on area roads.
507. with over 275,000 acres of sand dunes in michigan,why is there less than 400 acres available for orv use ?michigan has more dunes than almost any other state,yet the only orv area is much smaller than any orv dune area, i have visited.
508. With the growing popularity of Silver Lake Sand Dunes it is getting extremely crowded. We are only given about 1/3 to use orv's on. Open up the orv area and let the other dunes in the state remain pedestrian traffic only.
509. Without the Great Lakes and all the public shoreline such as beaches and state parks Michigan is just a bad economy with overweight people. The Lakes define us and inspire us.
510. Worry about motorized vehicles on the dunes
511. Would be nice to have an area where you could ride up and down the beach like at Daytona.
512. would greatly appreciate allowing pets (specifically dogs) onto more hiking trails. most hikers are responsible pet owners my husband & I especially ??
513. Would like to see return of meteor shower viewing on Sleeping Bear Dunes.
514. Would like to see studies of coastal erosion and what might be done to slow the west to east movement of dunes in general. Example: Silver Lake State Park Area.
515. You are NOT allowed to sell my email address.
516. You should provide answers relating to residents.
517. You've got to do something about the dune grass. Our beach used to be big and beautiful but now the dune grass goes almost to the waters edge. The beach is gone. It's so sad. We may not keep going if there's no beach. Please do something
518. Your education level is missing an option. Associates Degree or finished 2 yr. College.
519. 2016: a struggle.. I can't wait to get back to Michigan's coast line. Pictured Rocks next year. Thank you for all your work. Everyone there is a part of Michigan Coastal success and is appreciated.
520. 255 character limit? You clearly do not want to really hear my comments.

521. A single choice in the trust to govern question is offered. it is vital you understand that a strong partnerships between conservation groups, scientists, users, and the state are needed to successfully manage and protect these global treasures.
522. Access is often misinterpreted. It's important to have public access as far as its in public ownership and it doesn't damage the dunes. It does not mean "motorized access."
523. After moving from Michigan to Indy, I longed for a Michigan summer at our beautiful dunes and state parks. I love Michigan's system of public access & preservation & brag about it. The dunes are one of the main reasons I returned to Michigan.
524. Allow more use of off road vehicles in more locations.
525. An Associate Degree is "completed" college. You need to change that.
526. As with the Great Lakes, we need to keep them great!
527. At Ludington State Park there are no signs indicating if any dunes are off limits to foot traffic. Not sure if those areas exist, so we tread lightly. Signs permitting foot traffic (or not) would be helpful.
528. At Pict Rocks Nat'l Lksh the dunes are designated as Natural Research Area & "contain important ecological & scientific values & are managed for minimum human disturbance". Tourism is not compatible with their protection.
529. At Pictured Rocks, we saw fools damage signs, leap fences, and deface sites. I spoke up -- no rangers or officials! People are laughing at breaking the law, damaging historic and irreplaceable resources. This is a terrible trend we need to stop NOW!
530. Bathrooms need to be updated at the campground. Totally nasty
531. Be sure to fit in some Universal Access trails! My son recently broke his leg and I was always grateful when I could find a chair that I could push his wheelchair on . . . and was always surprised how many kids in strollers we shared the space with.
532. Beautiful areas that need to be preserved for many to enjoy!
533. Beautiful Important Must be preserved
534. Because the Indiana Dunes State Park beach is used so heavily there should be extra cleanup on weekends and more garbage cans on the beach.
535. Biggest hurdle is getting campsite. new popularity, it's an exhausting/\$\$ process (book 3 weeks, cancel some, reservation system, etc). We nearly cancelled because of lack of avails @ Ludington (14th yr in a row) Took 8 days of trying each AM
536. Coastal Sand Dunes are extremely important to Michigan. Please protect them. Thank you.
537. Conservation is of utmost importance. Pollution and invasive species control are items that should be focused on. As well as commerce...soo locks are vital.
538. Cooking food on the fire, hiking beautiful trails, seeing large old trees and animals. Any place we can do that is worth protecting. Education and respectful use of what nature provides is very important to maintaining areas that we enjoy
539. Could you consider making the campsites deeper? Being able to get cars/trucks farther away from the roadway would improve safety (e.g., kids on bikes, walkers). (You have a prime opportunity with the new campsites in Mclain SP!!)
540. Designating kiteboarding areas away from swimming area for launch and landing is an important safety measure for a kiteboarder and a beachgoer. A simple self launch Pole for a solo kiteboarder would be good for kiter safety.
541. DH Day Campground is a staple to our happiness. We come every summer around the same time and we wouldn't give it up for the work. Sleeping Bear is home to us. I cannot wait to bring our future children here for the same fun adventures I have had!
542. Disappointed that out-of-state people are building near sand dunes, then wanting to ship the sand away. Asked some Chicagoans who were chopping down trees why they didn't camp in Illinois, one of them replied, no trees in the campgrounds there.""

543. Don't over-manage & allow a group/groups dictate the management plan. They're used by many people with a variety of interests & no one interest should be more important than another. Need more space...
544. Donald Trump is a fool and will destroy our environment. I don't trust the federal or state government for this reason.
545. Dune camp sites should be spread out. Not many good options except rustic camping (eg Manistee w/vault toilets, no showers). Parks like Petoskey SP, DH Day, and Wilderness are too crammed. Petoskey beach now very rocky, could use good grooming.
546. Dunes need to be managed for the benefit of all, but with preservation of rare and endangered species taking priority. Motorized recreation activities should be minimized whenever and wherever possible to avoid negative impacts on these ecosystems.
547. Enjoy beaches, trails, and scenic drives and appreciate the occasional universal access opportunities. Want to trust government to protect dunes, but we don't have public servants with courageous attitudes about conservation.
548. Extremely disappointed in the beach erosion at Lake Mich Rec Area. Beach much smaller & water level much higher since last visit. Often felt like I was walking next to a sand wall as the high water/waves had cut into the dunes/beach grass severely.
549. Family bonding time happens in these places. I am a writer and artist and these areas inspire my work. Our visits teach our children about biology, geology, astrology, and history, and they foster an appreciation for these environments.
550. favorite place to visit is Lake Michigan dune areas. Enjoy camping and touring lighthouses and museums.
551. First time back since 2013, and removal of Dune Ready voucher system for the weekends made the trip FAR more enjoyable. It allowed us to go to the dunes and leave whenever we wanted. Also greatly appreciate seeing the new air filling station at the DNR.
552. For many years Michigan set aside natural areas and protected them. In the past 10-15 years the state has not funded the DNR and other state agencies sufficiently to protect and grow these areas, or enforce existing laws and codes.
553. fracking damage-oil pipeline leaks&depletion of fresh water by providing commercial bottling companies&non-great lakes basin municipalities w/fresh water. But have no\$2address concern. Itry2influence youth by advocating appreciation4Rnatural resources
554. Fully fund the DEQ and protect natural areas from harmful legislative action. I trust most employees and basic DEQ principles, but I don't trust politicians to protect the land. They are too controlled by business and industry to properly care for it.
555. Get teachers involved - Thank you
556. Had fun, thank you!
557. Hammock camping and winter sledding are great along the shore!
558. Hard to see litter on beaches so continued education/maintenance of dunes is important as well as education about zebra mussels. Want to continue to see protection for the coasts from anything that would harm ecosystem.
559. have noticed that there are not many state campgrounds in these locations.
560. Hiking on the trails of SBNL is a high priority for my husband and I when we visit the park. Areas of solitude where we can just sit and enjoy the sights and sounds of nature is also a priority.
561. I am extremely disappointed to see and hear the mining of the sand dunes at Ludington State Park. How is this legal? Muskegon used to have huge sand dunes until they were mined away in the 70's. The dunes won't naturally return once gone!
562. I am extremely worried about the amount of time it will take for the Lakes to reach the point of no return with the "legal" amounts of toxic chemicals we are allowing to enter the resource. Invasive species are also a grave concern.

563. I am fortunate to live less than an hour's drive from four state parks. Each park has something different to offer, and each season has its own unique beauty. Thank you for preserving these treasures for all of us to enjoy.
564. I am strongly supportive of efforts to preserve and protect our fragile dune ecosystem. I am in favor of limiting trails to foot traffic only .
565. I am very concerned about the diminished quality of Nordhouse Dunes and other dunes environments in Michigan from destructive use by those not following LNT principles.
566. I couldn't comment. You cut me off
567. I don't believe that anyone with money to be made would adequately protect the dunes, this includes the government. Greed tends to trump conservation.
568. I enjoy camping-traveling MI & support organizations dedicated to preserving these areas. As a photographer, I love the special beauty that Michigan's coastal areas offer & the diversity of wildlife & birds. Photos encourage others to visit Michigan.
569. I enjoy identifying wildflowers, trees, birds, etc. Finding an endangered species - such as a Pitchers Thistle - is a thrill for me. I am happy to abide by rules that restrict use of the dunes in order to safeguard endangered species.
570. I especially appreciate the option to rent a cabin at a State Park. Something with a floor and roof for when it rains, which it has done the last three time's I've camped! A cabin feels more secure than a tent as it has walls and a door.
571. I generally trust the national govt to protect natural areas, as evidenced by the National Parks. But with Trump's cutting of Natl Parks funding, I don't trust their management now, as they've been wanting to open up parks to mining.
572. I greatly enjoy, and have enjoyed going to PJ Hoffmaster State Park since 1988. I have taken my Kids there, and now they're taking their kids there.
573. I have been visiting the Sleeping Bear Sand Dunes and surrounding areas for almost 32 years. I have seen so much change and the conservation efforts need to stay ahead of the effects of tourism and overcrowding.
574. I have had many negative experiences with dogs that are allowed to run our beaches. Even though the 6' leash rules are posted, they are usually not followed in our parks.
575. I have not visited the dunes in a number of years, but have nothing but fond memories of going with my family often while growing up and on school field trips.
576. I have qualms about saying that I "trust" the federal government in protecting the status and long term well being of the coastal dunes due to the stated intent of our current president to sell off public lands.
577. I have small children and we spend a lot of time at the beach swimming. Water quality and cleanliness of the beach is very important to us.
578. I hope all our wilderness areas are managed for future generations and not sold off to private or mining concerns.
579. I hope that access to shoreline will continue to be available to people who like to walk the beach (myself included). I also hope that lands will continue to be set aside as public areas that are not developed, i.e. preserves.
580. I love using the rustic campgrounds and state land when I camp. I gladly pay for the permit on my license plate, however, I am very un-happy with the new \$10 dump/water fee being charged at the Modern State Parks.
581. I misunderstood the original question re:# of visits made. We probably went to Holland State Park 5 times this summer, Grandhaven 2x, Saugatuck dunes state park 5x, sleeping bear national park 1x, and tunnel park and Kirk Park 2x each.
582. I really enjoy walking on these dunes!!
583. I really enjoyed walking on the dunes, but if this is causing permanent erosion or is detrimental to animal species we should stay off the dunes.

584. I spent summers on Good Harbor Bay prior to the National Lakeshore's development. My sons and their friends now are bonded to the area - which may not have occurred had the lakeshore not been protected. Please consider this a belated 'thank you.'
585. I think it is in the best interest of the state to do their best they can to preserve these dunes.
586. I think the State of Michigan is doing a wonderful job at protecting and our coastal dunes! I am also very opposed to letting any bottled water companies draw water from the Great Lakes.
587. I will be retiring soon and would like to help when I'm in the area.
588. I wish there was a better way to get out and walk around on the dunes to see the scenery, without having to pay for a dune buggy ride.
589. I would like to make sure we leave them better than we found them.
590. I would like to see the boundaries of the Silver Lake Sand Dune ORV area opened back up like they were in the past. It's an amazing place to go and would be enhanced by having more area to drive around in.
591. I would love to see the dunes like they used to be esp in beach area ... Grass free! Better management and high fines for dog owners that don't follow rules. Vicious dogs were unchained and running all over on the ridge trail and also the beach.
592. I'm a public school 2nd grade teacher and I teach a place based watershed unit which scaffolds into third grade Great Lakes lessons. We should not mine our state's coastal sand for sale to fracking companies.
593. I'm concerned that other states do not have the same care for our water and natural beauty and may not make the best decisions for our conservation of the areas.
594. I'm wondering why Oval Beach in Saugatuck wasn't on your list...I had to use Other. Let's hope Line 5 is shut down, too.
595. In the past 12 months, we have also used Riley Street Beach (Holland), Tunnel Park, Kirk Park & Olive Shores (Ottawa County Parks), Saugatuck Dunes SP, Nordhouse Dunes, and Sleeping Bear Dunes.
596. Incredible treasure, really really really hope the coastal areas of Michigan stay in beautiful condition and are protected by law to be preserved
597. It is imperative that these unique costal landscapes remain open to the public. The display great character in this wonderful creation we have to enjoy and they show the variation in landscapes our great state has to offer.
598. It was very difficult to navigate this site; I had to start over, thereby losing my answers. Insufficient character allowance!! Fix!!
599. It would sure be nice if there were more dog friendly beach areas. That is actually the number one reason we visited Warren Dunes and McLain.
600. It's important to protect coastal lands,for water quality, diversity wildlife,birds, & clean environment. ORVs are best on designated trails. Thanks
601. Keep as it, prevent development
602. Keep beaches WALKABLE, planting beautiful native vegetation like beach grasses, no phragmites. Promote yoga, tai chi, qigong practice, foraging. Support mushroom hunting. Include LAKE HURON dunes, beaches.
603. Keep keeping control on the dogs. Many times, the big dumpsters are just overflowing and awful into midweek. We wonder when the trash gets emptied. Doesn't look good at all to see it all piled up like that.
604. Keep the beaches raked clean. Michigan is beautiful we love it.
605. Keep up the good work! Please consider employing more full time naturalists at a good wage. Truly Good folks are hard to come by and to do the job right they need to be appreciated...
606. Kids being able to run up and down the dunes is the best feature. I get that some dunes must be protected, but the Grand Haven area no longer has a great beachside dune to play on. North Beach used to be the best ever; now you can't set foot on it.

607. Leave the Dunes alone. Nature Conservancy ownership of Simmons Woods is good example. Incredible piece of property - No asphalt, miles of natural beauty and if someone is not acting appropriately you simply ask them to stop or call the DNR
608. Local, state, & fed govs are the ones that are responsible & need to take a hard stance on conservation. I don't think they do enough to fully trust them(esp state officials who jeopardize our lakes with oil pipelines & our parks with resource extraction)
609. Love Ludington and Sleeping Bear. Not especially fond of hiking through lots of sand because it is hard. Hate noisy just-for-fun vehicles. Nephew had fun renting a sled in western Texas and sliding down a dune there. Can that be done anywhere in Michigan?
610. Love the beauty and enjoy walking in them.
611. LOVE the Sleeping Bear Dunes. What is the opinion of climbing Pierce Stocking or Pyramid Point? I see signs warning people to stay off them. I think it's a fun source of accomplishment, but want to be mindful of the park's wishes.
612. MI Dune areas rival the most beautiful spots in the world. they are one of the main reasons myself and my family remain in Michigan despite personal economic incentives to leave the state.
613. Michigan is the best state in the union, keep it up!
614. Michigan's pure water is our most valuable resource affecting any recreational activities surrounding. Keeping our waters safe for swimming & fishing is of utmost importance. Do not privatize lest we lose any control.
615. More areas should be dog friendly
616. More educational information on the fragility of the dune environment to users.
617. More public access points on the Lakes are vital. There are stretches of the Lake Michigan coastline that I cannot reasonably access for some of the recreational activities that I most often participate in.
618. Most recent trip section of the survey could potentially skew some data. How much I spent individually is not an accurate representation of how much my party of 7 spent on the island.
619. My family and friends really enjoy the coastal sand dunes in Michigan and regularly make trip there to enjoy the outdoors and enjoy quality time together. I am also a photographer and have gotten some amazing scenic shots on the sand dunes.
620. My family and I have enjoyed Sleeping Bear for many years, some of my earliest memories are of the dune climb. My father at age 80 still was able to get up the first couple dunes! I've passed the tradition of the dune climb down to my daughter.
621. My husband and I were very impressed with the bike trails everywhere we went and the cleanliness of the Michigan State campgrounds.
622. My parents were active in protecting the dunes from development, mining and industrialization with the Save the Dunes Council. With Paul Douglas and Ev Dirkson of Illinois they launched the federal legislation designed to save and protect the shoreline.
623. Need clear rules for gen public to use MI natural resources that abut private property. If a sand dune covers cottage property, the public should have free access to that dune.
624. Nordhouse dunes being open to dispersed camping is for pack in/out and leave little trace. Our last visit was horrible. Very busy, abused with forestry damaged, camps and trails cut into many areas, and trash left all over.
625. Nordhouse Dunes has suffered from lack of appropriate oversight related to conservation of resources. It is heartbreaking to those of us who treasure the dunes.
626. One of Michigan's greatest features is the west coast of the Lower Peninsula. The more we can protect the dunes the better.
627. Originally from Michigan. Spend time at IN National Lakeshore. In Michigan take me to the shore and the lake. Wilderness Park and Sturgeon Bay are the jewels of the system in my opinion. Backpacked the NTC last spring out of Wilderness.

628. Other than what is normal change I think the area is doing ok. Invasive species does bother me though.
629. Our family chooses to go to P J Hoffmaster state park for their only family vacation time every year. Thank you for keeping it so beautiful!
630. Our family loves the coastal areas and overall are always pleased with our experiences. The only complaint we ever have is that sometimes campground rules are not enforced.
631. Our family loves visiting Sleeping Bear Dunes and the other costal dunes. We also like visiting Lumberman's Monument and the dunes there.
632. Out of everything, I really wish to help protect these shorelines for future generations. I am terrified of Trump and his administration that these geological features will be lost n that funding to keep these areas alive and healthy will be lost.
633. Parks in general need to be more dog friendly--not your focus I know but important to me.
634. People come from all over the world to drive on the last 400 acres of dunes open to ORV's in Michigan. Cramming the largest user group (ORV) into the smallest area is absurd compared to how much area is dedicated to the unassessable pedestrian area.
635. Please continue to limit access to Grand Mere to foot traffic only. No 4 wheelers or 4 wheel drive traffic! Ever!
636. Please do everything you can to keep our state in good shape.
637. Please do whatever you can to eliminate Dune Grass and return the beaches back to the expansive sandy areas they once were. Dune Grass is encroaching several nice beaches in places like Manistee, Muskegon and Petoskey.
638. Please don't take away our rights to visit our public lands
639. Please enable electronic payments at the park entrance
640. Please find a way to keep key state parks open so we can camp during the color change season.
641. Please keep our Federal and State lands safe. Don't let the Federal Government destroy them.
642. Please save McLain State Park It is so beautiful--we love it!
643. Preserve our land and keep what can be in public hands.
644. Protect the shoreline and back dune from development and erosion. Mgmt wise- have more educational signs along the lakeshore about changing water levels and beach erosion to educate public on what can be done to avoid negative shorelines.
645. Protect this valuable resource that makes Michigan unique. When I visit a park I think about how lucky we are. I would like to see more done to protect these regions including limiting public access and creating more wilderness areas.
646. Protecting the dunes areas for birds/wildlife is so very important. Restricting motorized vehicles on the dunes and educating the public are small parts to help protect our magnificent dunes for future generations. We must all be better stewards.
647. Ramps on the sand for the aged and handicapped are great.
648. Really enjoyed our trip. I think the state does a great job with tourism and maintaining the many state parks. Will definitely go back.
649. Running on m116 is amazing even with all the traffic..
650. Sad to see lack of parking for non-ORV users. Motor Homes parked perpendicular to parking lines, severely reducing parking space. Unfortunate there isn't more parking; local area has towing signs posted for dune users (non-ORV permit holders).
651. Sargent Sands has taken enough sand...time to stop
652. Should organize your parking lot with a lot attendant to tell people where to park in a uniformed parking matter to fill every spot in an organized format. Flags on the front are more of a danger for obstruction of veiw than in the rear.
653. Signs indicating NO Pets on trails were disregarded as people brought dogs on trails and did not pick up after animal. Signs stating Stay off Beach Grass were disregarded as people &

- animals marched over the grass destroying the plants. Please enforce.
654. Simply an awesome place to take friends and family.
655. Sometimes the best places should be kept secret to keep them beautiful and preserved.
656. Speed limits in the Sleeping Bear Dunes area are too high
657. state parks should have more personnel from seasonal employees to DNR & law enforcement. On my most recent trip to Warren Dunes, there may have been over 1,000 people but I only saw 1 DRN marked vehicle and a few, if any park personnel, my entire visit.
658. Stewardship is being well done.
659. Stocking Drive was over rated, boring and not scenic. We loved Glen Arbor - dining, galleries, quaintness. We really liked the Coast Guard Station Maritime Museum. Interesting and well done. We will not go back to Sleeping Bear Dunes again.
660. Stop the sand mining Enforce dune access restrictions Shut down and clean up Silver Lake State Park Enact AND ENFORCE animal/pet restrictions throughout the parks Fix management at Holland State Park Do this and I'll pay \$20/yr for a sticker
661. Thank You We have visited about 100 different areas in the last 30 years and are suppose to be at PJ Hoffmaster tonight, but we are going up in the morning because of the weather.
662. Thank you for protecting our access to Michigan's beautiful coastal dunes!
663. Thank you for the dog area at Warren Dunes. I wish a train went all the way up the MI coast and could drop people off at all the various state parks and beaches see: https://de.wikipedia.org/wiki/B%C3%A4derbahn_Molli. Keep on acquiring more public lands!
664. Thank you for your work!
665. Thanks for keeping Michigan's vital dune ecosystems beautiful for us and for future generations!
666. The area in South Haven (Miami Park) is being deforested and houses are packing in the area. What about all we have learned from previous erosion due to deforestation ?
667. The beach at Manistee National Forest Campground beach area has been overrun by dune grass.I have been visiting there since 1972 and have recently seen the dune grass overtake the beach area. The dune grass is obtrusive and needs to be controlled.
668. The beach at Warren Dunes State Park was extremely littered with garbage and unkempt. This was unusual from the many other times I had been to that particular beach.
669. The coastal dunes are one of the main reasons my family relocated to this area 24 years ago. We will not be leaving!
670. the cost of renting a camping space is too high at state parks- price can run upwards of \$35-\$40 a night.I've avoided these camp sites lately and stayed with family or gone to recreation sites like Nordhouse Dunes
671. The DNR does a fine job. But every time I visit, another restriction has been placed. The local sheriff harrasses the tourists and is uninformed when it comes to historical license plates. I had trouble with a deputy sheriff.
672. The dunes in Michigan are vital to the survival of many species of wildlife. We must do everything in our power to maintain these delicate coastal areas. Reduction of vehicles allowed in these areas would be a good start.
673. The Great Lakes are national treasures. I don't believe neighboring states do an adequate job of telling the rich history of the lakes and the imperative to preserve and protect these resources to regional or national audiences.
674. The health of our waters is important. Attention and funds must be given to prevent Asian Carp from entering our waterways. This would have a negative affect on other activities that draw people to the area.
675. The lack of respect for the beauty of Warren Dunes is tragic. I was able to fill a box with trash while walking 10 feet to the trash bin. While climbing the dune at sunset plastic bags and other

- trash were blowing past us like tumbleweeds.
676. The management of the Grand Sable Dunes is appreciated as it allows individuals into the Dunes on foot with no restrictions, but does not allow mechanical or commercial activities which might damage the ecosystem or scenic beauty.
677. The National Park system is doing a great job maintaining coastal areas and their parks
678. The pure, uncommercialized condition of the trails my group backpacked made this experience exactly what we hoped for. Great mix of challenging and easy trails with breathtaking pristine views.
679. The sand dunes are very beautiful and important environmental areas of our state. They provide many opportunities for enjoyment of our residents and visitors to our state. They need to be protected for future generations.
680. The sand dunes/great lakes are precious assets for MI and all of our visitors. We must maintain them as a high priority.
681. The shoreline from the beachhouse to lighthouse had lots of debris. Can Ludington State Park get volunteers together to clean the shoreline from the beachhouse to the lighthouse like the city beach does?
682. Their popularity is taking a toll on them.
683. There isn't space for me to detail our dissatisfaction with your poorly run system--we will not use a Michigan State Park again.
684. These area specific ecosystems are very important to everyone and need to be looked after for future generations.
685. They Are A True Gift And Blessing!
686. They are unique habitats for plants/animals. Consumers need education about the fragile dunes. Shorebirds/plants/coastal & intercostal areas need protection. Dunes should be native/used for education, not destroyed by unaware consumers.
687. This survey needs to be improved so you don't have to keep going back to the next question!
688. too much emphasis on parking lots close to water
689. U didn't ask abt. trips bef. 12 mo. ago, but I camped, hiked, & swum @ half the parks listed. You shld list parks BEFORE asking total # visits: I didn't know IN Dunes NL counts, since it's otsd. MI. What abt. Hoeft SP? I hiked dunes a month ago!
690. vehicles allowed on Dunes is a big mistake other than those giving guided tours
691. Very happy to see the project along Hwy 2 doing so well. Keep up the good work fighting against erosion.
692. visiting SLSD is a family tradition that I would love to share with my future children.
693. Visitors need to respect our natural resources. Some people don't pick up after their pet and litter. Owner of boat that broke apart & littered the Ludington shore should be fined & charged for the clean up that was done by volunteers.
694. Warren Dunes is a precious place to our family. It would be devastating if money interests won out and the dunes were damaged, or worse yet, destroyed.
695. Way better managed than in our home state of Illinois.
696. We always seem to go to coastal dune areas in Michigan for camping & day trips. We love those areas so much more than inland lakes. Hiking & biking are our favorite activities, but when we're with the whole family, hiking & fishing are favorites too.
697. We appreciate the beauty of the coastal sand dunes in Michigan and take pride in keeping the area we visit clean. The areas we visit for swimming and sightseeing meet to exceed our expectations. Thank you.
698. We have a young child and visit Kirk Park because it has shaded parking, paved pathways and well-kept bathroom facilities.
699. We have been to numerous locations on the coastal dunes over the past 37 years and have

- never had a bad day there. As biologists, we are very aware of how unique and important this ecosystem is.
700. We have often camped, hiked, swum, fished, picnicked at parks in coastal dunes over many years. This year we left highway on impulse to visit one new to us. Ate at a brewery that we would not have stopped at otherwise.
701. We LOVE Michigan!
702. We love Michigan!! Very clean, very beautiful and outdoor freindly. :)
703. We love Sleeping Bear, Pictured Rocks, Warren Dunes, and everywhere in between along the Lake Michigan and Lake Superior coasts!!!
704. We love the Michigan coast and think it should be kept clean and accessible for all ages and socioeconomic groups.
705. We love the Michigan parks.. they are our favorite Midwest parks!
706. We loved Whitefish Point and Warren Dunes! Coastal Michigan and Michigan's North Woods are phenomenal. My goal is to camp with my kids at all of the Great Lakes - we plan to do so for 4 of the 5 at a Michigan state park!
707. We make frequent day trips to the western coast of Michigan. We enjoy the treasures of the Lake Michigan shoreline often as we live only 20 miles inland.
708. WE NEED A SEWER NOW! It will take 25+ years for the groundwater nutrients to leave the ecosystem and restore the water quality to what it was 10 years ago. The lake will never recover in my lifetime and I will buy near dune areas in another State.
709. We need to ban balloons!! We take so many off the beach every time we go.
710. We really enjoy the Ludington and Silver Lake area! Love the dune rides, sunsets, wildlife and cleanliness of both places. Visiting the lighthouses are always on our to do list.
711. We visit the UP coastal sands dunes about every other year; it is our favorite place to vacation in our region (From Superior, WI). We are thankful that segments of the shore land must be accessed via longer hikes/kayaks, etc. to avoid the crowds.
712. We visited Sleeping Bear Dunes about 9 years ago. My son (13 at the time) and I hiked down to the bottom.
713. We want the beach back!!!
714. We were disappointed to be unable to camp in SBNL. Interlochen SP was beautiful as well, but some of the closer campgrounds recommended by the ranger at the visitor's center were terribly maintained and did not look safe or inviting.
715. We would support increased funding for management of the dunes through higher fees or even state taxes to ensure continued preservation of this environment
716. We've taken our daughters camping for years, visiting many of Michigan's beaches and dunes. In today's age of always plugged in, face in your phone, non-interaction, our beaches and dunes are amazing. They get kids into nature, having a blast of a time.
717. When entering Warren Dunes on extremely busy days like when they had three lines please make one line for people who have a pass. WItng 5-10 while people pay and make change when you just want to get to your campsite is frustrating.
718. Wildlife and Environmental protection takes precedence over human recreation every time. This is a unique area and sadly, people often don't pay Nature the respect it deserves. Preservation for future generations is my primary goal, not entertainment.
719. Would have??to vist the petowskey SP but we were turned away.No parking.Seriously no parking.We drove4.5hours and we had the rudest park ranger ever.He was not sympathetic to the fact that we have come so far he just kept saying no parking.
720. Your campaign is working because can't get into the park unless you reserve way in advance.

Appendix D

Complete #HowYouDune Survey Online
Questionnaire

Michigan Coastal Sand Dune Survey



Sleeping Bear Dunes National Lakeshore, [Sleeping Bear Dunes Visitors Bureau](#), July 2004.

Michigan has more miles of freshwater coastline than any other state in the U.S., and the Great Lakes host the largest collection of freshwater sand dunes in the world. There are approximately 275,000 acres of these coastal sand dunes in Michigan -- a relatively tiny slice of the state's overall landscape -- but they provide a range of ecological, cultural and economic value to the state and its coastal communities.

Once named the "Most Beautiful Place in America" by *Good Morning America*, the majority of the dunes are comprised of wind-blown glacial sand, and located mostly along lakes Michigan and Superior. They include diverse features such as hilly foredunes, forested backdunes, interdunal wetlands and sandy beaches. Their beauty and rich diversity of plant and wildlife attract residents and millions of visitors to Michigan shorelines to visit, live and work. In doing so, they challenge us to weigh our enjoyment of the dunes against the need to protect them and to live in greater harmony with their dynamic, ever-changing nature.

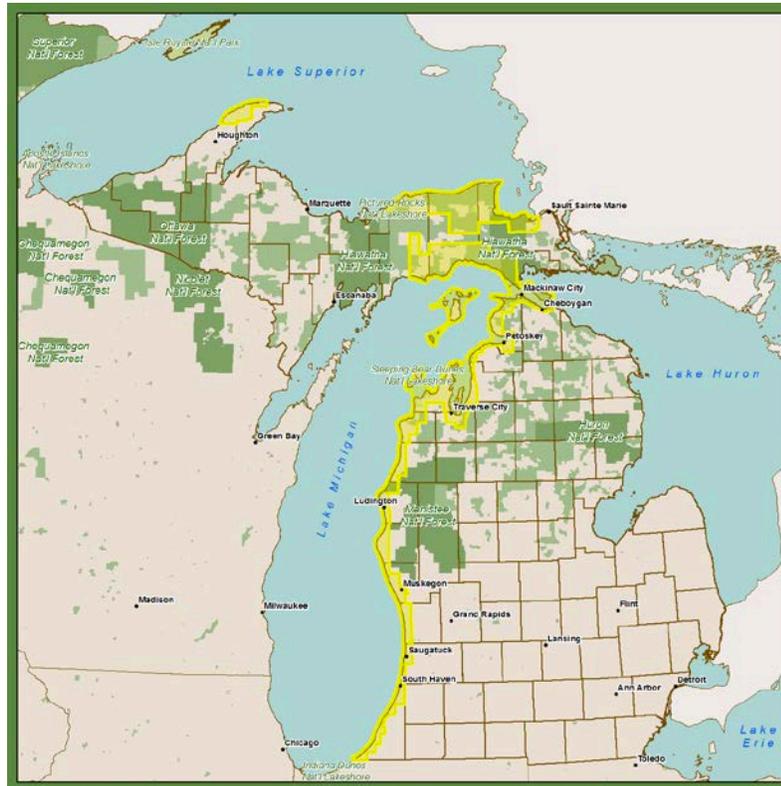
We are conducting a survey intended to gather information about the value and the specific recreation uses of Great Lakes coastal dunes. You will be asked questions related to:

- The coastal dune locations you visit
- Your most recent trip to visit coastal dunes
- Costs related to your most recent trip

Your responses will be anonymous, and they will provide valuable information about how people use and enjoy coastal dune areas.

Michigan Coastal Sand Dune Survey

For the purposes of this survey, the coastal sand dune areas of Michigan are defined as townships that contain coastal dunes as highlighted by the yellow area on the map below. Please consider this map as a general guide to determine if you've visited a coastal sand dune area.



Click on the image to enlarge.

1. Have you and members of your household visited coastal sand dune areas in Michigan for recreation in the past 12 months?

- Yes
- No

Click on the 'Next' button to progress through the survey.

Michigan Coastal Sand Dune Survey

Enjoyment and Recreation

How many trips did you make the coastal sand dune areas of Michigan in the last 12 months?

(A **trip** is defined as an intentional visit from your home to coastal dune areas for recreation purposes.)

During your __ trip(s) to the coastal dune areas in the past 12 months, how many *different* dune locations did you visit?

(Locations can include public lands such as parks and nature preserves, or private destinations such as resorts or cottages in the coastal dunes.)

Michigan Coastal Sand Dune Survey

Enjoyment and Recreation

Now you will be asked a series of six questions about each of the ___ location(s) you visited. Please answer all six questions for each location you visited.

1. What coastal dune location did you visit?

Select **one location at a time** by typing the name of the location in the box below. If the desired location does not appear, type or select '**Other**'.

(sample selection)

2. How many times have you visited *Arcadia Dunes Nature Preserve* in the past 12 months?

3. Which of the following recreation activities did you participate in at *Arcadia Dunes Nature Preserve*?

(Select all that apply.)

- Beach going
- Biking (cruising, road)
- Biking (mountain, off-road)
- Biking (Fat bike, beach cruising)
- Camping - modern (camper, RV, etc.)
- Camping - rustic (tent, backcountry, etc.)
- Collecting/harvesting aquatic life (seaweed, etc.)
- Collection of non-living resources/beachcombing (agates, fossils, driftwood)
- Dune climbing
- Endurance event (triathlon, 5K, etc.)
- Fishing (from shore, pier, boat)
- Free diving/snorkeling (from shore, from boat)
- Hang gliding/parasailing
- Hiking
- Kayaking in a lake or river
- Kite boarding or windsurfing
- Photography

- Power boating
- Running (on-road)
- Running (trail or off-road)
- Sail boating
- Scenic enjoyment
- SCUBA diving (from shore, from boat)
- Skim boarding
- Spear fishing (from shore/from boat)
- Storm watching
- Surfing (body, board, boogie, stand up paddle)
- Swimming
- Using off-road vehicle/driving on dunes
- Using a personal water craft (PWC; e.g., Jet Ski)
- Watching birds and/or other wildlife from shore
- Watching wildlife from a boat (private or noncommercial)
- Other

4. Of all the coastal recreation activities you selected, which was your primary reason for visiting *Arcadia Dunes Nature Preserve*?

5. During what month did you most recently visit *Arcadia Dunes Nature Preserve* to participate in your primary activity of *Hiking*?

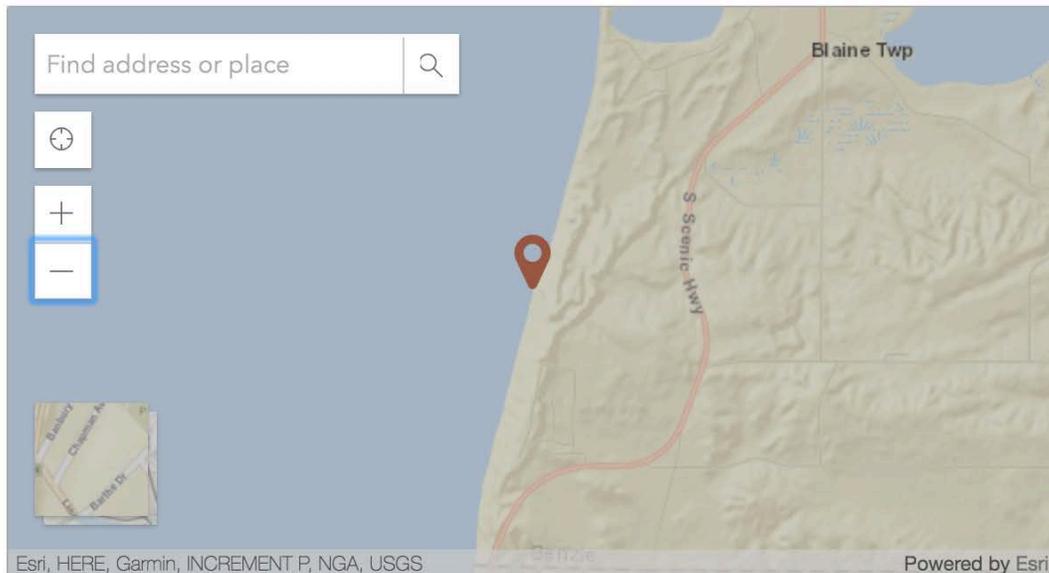
6. If you have a little more time, would you be willing to more precisely identify the location (such as a specific trail, beach, campground, or other landmark/feature) where you participated in *Hiking* at *Arcadia Dunes Nature Preserve*?

- Yes
- No

Zoom in using the *plus (+)* sign on the left side of the map. *Arcadia Dunes Nature Preserve* will already be centered on the map.

Click through the various map thumbnails located in the bottom left corner until you find the view (street names, aerial imagery, topographic, etc.) that most clearly shows the key features of the area.

Move the map so that the pin is centered on the location at which you participated in *Beach going*. Please be as precise as possible.



Decimal Degrees

latitude (x.y °)

44.53716432

longitude (x.y °)

-86.22889433

Michigan Coastal Sand Dune Survey

Trip Expenditures

Now we would like you to think about your most recent trip to the coastal sand dune areas of Michigan. A trip is defined as an intentional visit from your home to coastal dune areas for enjoyment or recreation purposes.

Please estimate how much money you and your household spent on trip-related expenditures, including transportation, fuel, lodging, meals, park entry fees, equipment and gear, and other expenses during your most recent trip to coastal dune areas in Michigan.

Round to the nearest whole dollar (USD).

How many total people were in your party (including yourself) on your most recent trip?

What else did you do during your most recent trip to a coastal dune area?

Please select all that apply.

- Stay at a hotel, motel, inn or bed and breakfast
- Stay at a private cottage or cabin
- Eat at a restaurant
- Rent recreational equipment
- Purchase gas
- Purchase groceries
- Visit an art gallery or museum
- Visit a winery or brewery
- Other

If you would like to include a photo of your trip to visit coastal dunes in Michigan, please attach one here.

Michigan Coastal Sand Dune Survey

Social and Cultural Values

For the following benefits of coastal dunes, please indicate the importance of each to you and your household:

Scenic beauty

Not important at all Not very important Moderately important Very important Extremely important

Biological diversity

Not important at all Not very important Moderately important Very important Extremely important

Wildlife viewing and watching

Not important at all Not very important Moderately important Very important Extremely important

Outdoor recreation

Not important at all Not very important Moderately important Very important Extremely important

Protection for endangered species

Not important at all Not very important Moderately important Very important Extremely important

Protection of a unique ecosystem

Not important at all Not very important Moderately important Very important Extremely important

Protection for future generations

Not important at all Not very important Moderately important Very important Extremely important

Scientific research

Not important at all Not very important Moderately important Very important Extremely important

Educational purposes

Not important at all Not very important Moderately important Very important Extremely important

Spiritual values or inspirational benefits

Not important at all Not very important Moderately important Very important Extremely important

Income and jobs for the tourism industry

Not important at all Not very important Moderately important Very important Extremely important

Other

Not important at all Not very important Moderately important Very important Extremely important

If you've selected a level of importance for 'Other', please specify the benefit to which you are referring.

Michigan Coastal Sand Dune Survey

Social and Cultural Values

How important is access to coastal dunes in Michigan to the quality of life for you and your household?

Not important at all Not very important Moderately important Very important Extremely important

Who do you trust with the protection and stewardship of coastal dunes in Michigan?

(Please select all that apply.)

- Federal government
- State government
- Local government
- Non-profit conservation or outdoor organization
- Recreational users

Michigan Coastal Sand Dune Survey

Social and Cultural Values

In what zip code do you live?

Please select your gender.

In what year were you born?

(Please enter a four-digit year)

What is your ethnicity or race?

(Please self-identify, selecting all that apply.)

- White
- non-Hispanic/Latino
- Hispanic/Latino
- Black/African-American
- Native American
- Asian
- Other
- I prefer not to answer

What is your pre-tax yearly household income?

- Less than \$25,000
- \$25,000 - \$49,000
- \$50,000 - \$74,000
- \$75,000 - \$99,000
- \$100,000 - \$124,000
- \$125,000 - \$149,000
- \$150,000 - \$200,000
- \$200,000 or more
- I'd rather not say

What is your domestic status?

- Married
- Divorced or separated from spouse
- Widowed
- Unmarried domestic partnership
- Never married

What is the highest level of education you have completed?

- Married
- Divorced or separated from spouse
- Widowed
- Unmarried domestic partnership
- Never married

Final: Thank you for participating in our survey! We appreciate your feedback and input!



freshwater

DUNE SUMMIT

May 7-8, 2017

DOWNTOWN MUSKEGON

AGENDA

May 7–8, 2017 | Muskegon, Michigan

Sunday, May 7

- 3:00 pm **Sunday Funday!** Meet at the Holiday Inn – Muskegon Harbor for recreational outings with fellow dune lovers. Three tracks to choose from:
- Option A Group bike ride down to Pere Marquette beach. Bring your own bike; helmets strongly encouraged.
 - Option B Trail run in the dunes led by local running enthusiasts. Small groups will carpool to nearby trail for a 3-mile run along Lake Michigan next to the dunes.
 - Option C 1.5 hour kayak float on the Muskegon River, organized through a local guide service. Cost includes kayak and transportation to/from hotel.
- 4:30 pm **Dinner at Rebel Pies**, 360 W Western Ave, downtown Muskegon. *Please note that Sunday attendees will be responsible for their own food and beverage bills.*
- 6:00 pm **Coastal Films & Brews at Unruly Brewing**, 360 W Western Ave, downtown Muskegon
- Mr. Keweenaw*
 - Great Lakes Bad Lines*
 - Pleasant Peninsulas*
 - Never Quite the Same (Heart of the Lakes)*
 - Surrounding Water*
 - Two Girls and a Tree Named Makeba*

Monday, May 8

- 8:00 - 9:00 am **Registration**, Caffeine & Fruit at Holiday Inn – Muskegon Harbor
- 9:00 am **Welcome!**
Brad Garmon (Michigan Environmental Council)
- Morning Sessions
- 9:15 am - noon Two tracks to choose from:
- Option A **Dunes Field Trip**
Field trip features a visit to Hoffmaster State Park, a brief stop at Lake Harbor Park in Norton Shores, and a visit and hike at North Ottawa Dunes. Speakers include Elizabeth Brockwell-Tillman (Gillette Sand Dune Visitor Center at P.J. Hoffmaster State Park), Melanie Manion (Ottawa County Parks) and April Scholtz (Land Conservancy of West Michigan). \$10 bus transportation fee required.

Option B

Sharing and Discussion Sessions

9:15 - 10:10 am

Economic and Community Benefits of Outdoor Recreation

Candy Fletcher (Travel Marquette)
Lori Booth (Surfrider Foundation)

10:10 - 11:05 am

Dune and Beach Stewardship Efforts

Jamie Cross (Alliance for the Great Lakes – Clean Beaches Initiative)
Shaun Howard (The Nature Conservancy – Michigan Dune Alliance)

11:05 am - noon

Evolution in Dune Management Science

Suzanne DeVries Zimmerman and Ed Hansen (Hope College)
John Paskus (Michigan Natural Features Inventory)

Afternoon Sessions

12:15 - 1:45 pm

Lunch with Keynote Speakers and Awards

Drs. Robert Richardson and Sarah Nicholls of Michigan State University will unveil a new social and economic value survey for the dunes.
Heart of the Lakes will present its annual Conservation Hero awards.

2:00 - 3:00 pm

Case Studies in Protection and Access to Coastal Dunes

David Foote (Grand Traverse Regional Land Conservancy)
Kathy Evans (West Michigan Shoreline Regional Development Commission and Michigan Environmental Justice Working Group)
Jon Thompson (Huron-Manistee National Forests, including Nordhouse Dunes Wilderness)

3:15 - 4:15 pm

Stories from Our Dunes National Lakeshores

Scott Tucker (Sleeping Bear Dunes National Lakeshore)
Lynda Lancaster (Indiana Dunes National Lakeshore)
Bruce Leutscher (Pictured Rocks National Lakeshore)

4:20 pm

Closing

Heather Shumaker (Author of *Saving Arcadia: A Story of Conservation and Community in the Great Lakes*)

4:30 - 5:30 pm

Happy Hour Session at Pigeon Hill Brewery, 500 W Western Ave, Muskegon
Steve DeBrabander, Grants Section Manager for the Michigan DNR – including coordinating the Michigan Natural Resources Trust Fund – will be on hand to share information about the Trust Fund's operations and its role in facilitating public acquisition of coastal sand dunes.
Karen Rae Boase, Coastal Habitat Specialist with the Coastal Zone Management Program, Office of the Great Lakes, will be available to discuss the Coastal Zone Management program, including funding opportunities.
Please note that Happy Hour attendees will be responsible for their own food and beverage bills.



Welcome to the Freshwater Dune Summit!

Michigan has more miles of freshwater coastline than any other state in the U.S., and the Great Lakes boast the largest collection of freshwater sand dunes in the world. Those dunes amount to approximately 275,000 acres — a relatively tiny slice of Michigan's overall landscape — but are a vital part of our state's identity and experience.

Named the Most Beautiful Place in America by Good Morning America, these dunes offer a diversity of features, including windblown foredunes, forested backdunes, interdunal wetlands and beaches. The complexes of wind-blown glacial sand provide a range of ecologic, cultural and economic value to our state and its coastal communities. Their beauty and rich diversity of plants and wildlife attract residents and millions of visitors to our shorelines to visit, live and work.

In doing so, they challenge us to weigh our enjoyment of the dunes against the need to protect them and to live in greater harmony with their dynamic, ever-changing nature.

Funded by the Michigan Coastal Zone Management Program, through NOAA and the Michigan Office of the Great Lakes, the Michigan Environmental Council has increased our focus on the protection and understanding of Michigan's freshwater dunes in recent years. In addition to this project, we previously developed the project *Bringing the Latest Science to the Management of Michigan's Coastal Dunes*, which advanced knowledge and awareness of key aspects of Michigan's coastal sand dunes — one of the state's most iconic, celebrated, and under-valued natural assets. Findings from that project can be found at www.environmentalcouncil.org/coastaldunes.

Today, we are now working to implement three key recommendations from that previous work, specifically:

- More accurately determine and map the geologic extent of Michigan's coastal sand dunes.
- Explore and document the economic, social and cultural importance of the dunes through an outreach and online survey program.

- Identify, engage and catalyze a broader constituency of dunes supporters and inspire a deeper and broader understanding of the critical role that the coastal dunes can play in Michigan's future prosperity and quality of life.

Coastal Dunes Survey

To help the state and local communities better understand, plan for and manage these freshwater dune areas, we are conducting a survey of recreation uses and social values associated with coastal dunes in Michigan. The online survey approach we are launching this spring will help us gather important data about how Michigan's residents and visitors use and value our amazing freshwater coastal dunes as places for recreation, relaxation, scenic enjoyment and more. The online survey will also begin to quantify economic benefits associated with the coastal dune system, and help characterize the benefit of dune ecosystems to quality of life. Ultimately, we expect that this online valuation survey will provide localized expenditure information, by specific geographic location, that will help coastal communities better understand dune recreation/tourism patterns and supply and demand.

In addition to taking the survey yourself, we would also ask for your help in promoting and spreading the word about the survey to ensure we have strong participation and useful data. To help you in this effort, the project team can share a variety of marketing and awareness strategies and tools with you, including

sample emails, social media announcements (Facebook, Twitter, Instagram, etc.), postcards that could be placed in outdoor retail establishments, eateries, and related destinations. We are eager to engage you, local recreational user groups, partners and organizations, tourism agencies, outdoor gear shops, outfitters and others that might help us promote the survey.

This survey effort is intended to accomplish two primary objectives:

- Create a fuller picture of the social, cultural and economic importance of Michigan's coastal sand dunes, with specific data about how people interact with and value this amazing resource.
- Generate stronger partnerships with recreational dune users, tourism professionals, local business leaders, and other trusted constituencies who understand and celebrate coastal dunes and support sound management.

Please contact me if you'd like to get more involved in the survey outreach and promotion effort — we'd love to work with you!

Cheers!



Brad Garmon
Director of Conservation & Emerging Issues
Michigan Environmental Council



Michigan Environmental Council

Michigan Environmental Council—a nonprofit charitable organization—is a coalition of more than 65 organizations formed in 1980 to lead Michigan’s environmental movement in achieving positive change through the political process. MEC combines deep environmental policy expertise with close connections to key state and federal decision makers, decades of experience getting things done in the political process, and an ability to rally broad and powerful alliances in support of reforms. With our member groups and partners in public health, conservation, and faith-based communities, MEC promotes public policies to ensure that Michigan families will enjoy clear waters, clean beaches, beautiful landscapes and healthy communities for years to come.

Heart of the Lakes

Heart of the Lakes is the collective voice for Michigan’s land conservancies and their friends. At the core of our work is an understanding of people’s connection to land and water—how it enriches our lives, defines our sense of place, and provides for our most vital needs. Heart of the Lakes’ efforts conserve forests, farmland, coastline, and other important places for the benefit of generations to come. We believe

that places in nature have the power to create stories; and that where and how we choose to spend our time reveals to the world, and ourselves who we are and what we truly believe in. We believe that a life well lived embraces fresh air, long hikes, cold nights, campfires, and infinite stars. We believe that the places we protect, the organizations we support, the communities we call home—all say something about who we are, our values, and our passions. We believe that who we are is as much about where we live as how we live. To be a Michigander is to be carved out of the geography we call home.

West Michigan Environmental Action Council

WMEAC has been West Michigan’s preeminent resource for environmental education and advocacy since 1968. Founded by a diverse group of concerned citizens and organizational stakeholders, WMEAC is a nonprofit 501c3 organization positioned to respond to emerging issues and new threats to West Michigan’s natural and human ecologies, strategically focused on protection of natural resources and building climate resiliency. Our service area includes the eight-county West Michigan region: Allegan, Barry, Ionia, Kent, Montcalm, Muskegon, Newaygo, and Ottawa Counties.



Financial assistance for this event provided, in part, by the Michigan Coastal Zone Management Program, Office of the Great Lakes, Department of Environmental Quality and the National Oceanic and Atmospheric Administration

Coastal Zone Management

Michigan's Coastal Zone Management program was established in 1978 to protect and manage the nation's longest freshwater coastline. Located within the Office of the Great Lakes of the Department of Environmental Quality, the Coastal Zone Management program provides leadership and support for Michigan's coastal communities and their unique ecological resources, and offers technical and grant assistance to support environmental stewardship, innovate to address unique coastal challenges, and serve as cooperative partners in economic development.

Michigan Natural Resources Trust Fund

The Michigan Natural Resources Trust Fund (MNRTF) is the primary funder of public outdoor recreation in Michigan having gone over \$1 billion in grants awarded in 2014. This Constitutionally protected program funds the acquisition of land and rights in land for natural resource protection and public outdoor recreation. The program also funds the development of public outdoor recreation facilities such as trails, boat launches, fishing piers, ball field, skate parks and pavilions. Grants have been awarded in every county in the state and have been used to acquire and develop thousands of parks. Over the years, millions of dollars have been awarded to acquire sand dunes for natural resource protection and public outdoor recreation. Recently, the MNRTF Board of Trustees made the decision to make land acquisition projects that will result in increased public access to the Great Lakes shoreline a top priority for the program.



275,000 acres of amazing.

What do the dunes mean to you?

The #howyoudune online survey will provide vital new information about how residents and visitors use and value our amazing freshwater coastal dunes for recreation, relaxation, scenic enjoyment and more.

Please share this link with friends, family and colleagues!

howyoudunesurvey.com

Launching Memorial Day, May 29, 2017!

SPEAKERS

Karen Rae Boase

Michigan Office of the Great Lakes

Karen Rae Boase has over 16 years of work experience in the Michigan Department of Environmental Quality and currently serves as the Coastal Habitat Specialist for the Office of Great Lakes, Coastal Zone Management Program. As the Coastal Habitat Specialist, Karen oversees grant projects and works with coastal partners to facilitate wise management of coastal areas by promoting habitat preservation, restoration, and protection activities to support resilient natural systems. Karen has held several positions within the MDEQ Water Resources Division related to the implementation and enforcement of the Soil Erosion and Sedimentation Control, National Pollutant Discharge Elimination System, Wetlands Protection and Inland Lake and Streams programs. Karen has completed her graduate course work with an emphasis in Botany and earned a B.S. in Botany from Eastern Illinois University.



maintain both public and private funding for these studies. While Surfrider is based in San Clemente, California, Lori works from her home office in Ironwood, Michigan, where she is lucky enough to enjoy the endless natural wonders of the Upper Peninsula and the entire Great Lakes region.

Elizabeth Brockwell-Tillman

Gillette Sand Dune Visitor Center

Elizabeth Brockwell-Tillman is the Park Interpreter for Gillette Sand Dune Visitor Center at P.J. Hoffmaster State Park. She is a native of Lansing, Michigan where her family has played a prominent role in state and city government. Although raised in the city, her parents instilled a love of nature in the family at an early age, and summers were spent at their cottage on Lake Michigan. Elizabeth's educational experience includes five years at Michigan State University where she earned a BA in Journalism and a BS in Resource Management. Her Department of Natural Resources career began as a seasonal naturalist at Ludington State Park in 1988. That same year, she came to Hoffmaster State Park as a full-time naturalist. Elizabeth is the co-author of "Discovering Great Lakes Dunes" and she has contributed to many books by other authors. Outside of her professional duties and writing projects, Elizabeth tries to lead a peaceful, private existence with her husband and daughters. Most of their free time is spent participating in equestrian sports.



Lori Booth

Surfrider Foundation

Lori Booth is the Global Grants Manager for the Surfrider Foundation, a grassroots environmental nonprofit organization dedicated to the protection and enjoyment of our ocean, waves, beaches and lakes. Over the past several years, Surfrider has implemented recreational use studies in coastal regions nationwide. The studies collect spatial, economic impact and other data from recreational users on non-consumptive activities such as beach going, surfing, kayaking, diving and wildlife viewing. Through her role as Grants Manager, Lori has helped to secure and



Jamie Cross

Alliance for the Great Lakes

Jamie Cross is Adopt-a-Beach™ Manager for the Alliance for the Great Lakes. Jamie has been with the Alliance since 1999. Her role with the Alliance is to oversee the day to day operations of the Adopt-a-Beach™ program in which volunteers participate by removing marine debris from coastal areas and record their findings into an online Adopt-a-Beach™ system. Under Jamie's leadership, the Adopt-a-Beach™ program grew from the one-time a year International Coastal Cleanup in Michigan and Illinois to a year-round program. Now active in all eight Great Lakes states, the Adopt-a-Beach™ program engages more than 15,000 volunteers throughout the region annually. She has also played a lead role in development of the Great Lakes Marine Debris Action Plan by working in partnership with NOAA to convene stakeholders and facilitate the development of the action plan.



Suzanne DeVries-Zimmerman

Hope College

Suzanne DeVries-Zimmerman is an Adjunct Assistant Professor in the Department of Geological and Environmental Sciences at Hope College, Holland, Michigan. She is part of an interdisciplinary team of dune researchers at Hope College, studying multiple aspects of Lake Michigan's coastal dunes. Suzanne specializes in the relationships between coastal dune dynamics and the ecological systems living on the dunes. Recently, she initiated a long-term ecohydrological study of an interdunal wetland or slack near Saugatuck, Michigan. The project's goal is to investigate the factors and their respective influences on the wetlands and the ecological communities there with an eye towards managing these areas for future generations. In addition, she and her colleagues are working with researchers from Liverpool Hope University, Liverpool, England and the Centre for Ecology & Hydrology, Bangor, Wales, on collaborative projects involving dune dynamics, including the ecological systems on these dunes, and dune management along the Welsh and Lake Michigan coasts.



Steve DeBrabander

Michigan Natural Resources Trust Fund

Steve DeBrabander is a 36-year veteran of the DNR and DEQ having worked in environmental protection, land management and recreation and trails programs. Since November 2010, he has been manager of the Grants Management Section within the DNR where he oversees 12 grant programs including the Michigan Natural Resources Trust Fund, Land and Water Conservation Fund, Recreation Passport Local Grants Program, Marine Safety Program, Dam Management Grant program, and the new Habitat Improvement Grant Programs. Previous positions include Supervisor of the State Trails Operations and Constructions Unit, Forest Land Administrator, Wildland Fire Fighter and Resource Analyst where he spent 10 years regulating activities in Critical Dune Areas and High Risk Erosion Areas. Steve is a graduate of Michigan State University and the Great Lakes Leadership Academy's Advanced Leadership Program.



Kathy Evans

West Michigan Shoreline Regional Development Commission

Kathy Evans is a lifelong resident of Muskegon County. Growing up near Muskegon State Park, she enjoyed swimming and exploring the Lake Michigan beaches, sand dunes and forests. From 1978 to 1982, Kathy deepened her appreciation for dune ecosystems while working for the Michigan Department of Natural Resources at Gillette Sand Dune Interpretive Center in P.J. Hoffmaster State Park. Kathy and her husband Mark have two children and two grandchildren. From 1995 to the present, Kathy worked for the Muskegon Conservation District, Timberland Resource Conservation & Development and, for the past 9 years, the West



Michigan Shoreline Regional Development Commission. Kathy is also a member of the Environmental Justice Work Group for the State of Michigan.

Candy Fletcher

Travel Marquette Michigan

Candy Fletcher Kozeluh is Director of Recreation for Travel Marquette Michigan (Marquette County Convention and Visitors Bureau) with responsibility for marketing recreation, trail infrastructure sustainability, trail visitor experience and community education. In 2016 she won “Marketing and Sales Star of the Industry Award” presented by Michigan’s Lodging and Tourism Association. Traveling worldwide, Candy speaks about trail tourism and how it increases economic growth; she also talks about protecting your marketable assets. Candy is currently active on several Boards of Directors, including the Noquemanon Singletrack, Superiorland Ski Club, Michigan’s Upper Peninsula Snowmobile Association, and the Bikeability Committee and the Patient and Family Advisory Committee for UPHS. Candy thrives on challenges, particularly in the role of race director and liaison between trail user groups. She is currently working on a collaborated marketing plan involving tourism, healthcare and education. In her free time, Candy coaches mountain bike skill clinics, skis, surfs, cooks, and works on home remodeling projects with her husband Doug.



David Foote

Grand Traverse Regional Land Conservancy

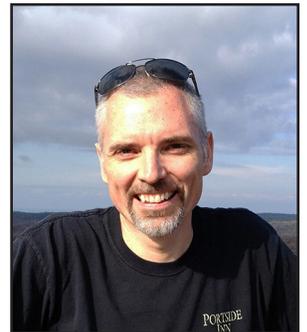
David Foote is the Director of Stewardship for the Grand Traverse Regional Land Conservancy which manages just over five miles of Lake Michigan beaches and dunes. David spent his early years in the woods and dunes of a small community on the shore of Lake Michigan which sparked a lifelong interest in dunes, beaches, and coastal issues. He studied coastal morphology and coastal resource management at the University of West Florida before embarking on a career in the protection and management of conservation lands which has included a wide variety of coastal properties in Michigan and Florida. David has an M.S. from Florida State University in Executive Management of Non-Profit and Public Organizations and a Juris Doctor from the Florida International University College of Law.



Brad Garmon

Michigan Environmental Council

Brad Garmon oversees MEC’s policy work on natural resource protection and enjoyment, land conservation, and place-based economic development strategies. He joined MEC in 2001 after moving to Michigan from Kansas; he holds undergraduate degrees in Earth Science and Geospatial Analysis, and an M.A. in English. Brad was appointed by Governor Snyder to the Michigan State Parks and Recreation Blue Ribbon Panel in 2011, and also served on the Department of Natural Resources’ Public Land Strategy Steering Committee in 2012, and the Office of the Great Lakes’ Water Strategy Cabinet in 2013. He was appointed to the Michigan DNR’s Pigeon River Country Advisory Council in 2013; serves on the Michigan Tourism Strategic Plan’s Resources and Environment Working Group; is a past board member of the Community Economic Development Association of Michigan and is currently chairing the Policy and Outreach Committee of the Michigan Trails and Greenways Alliance Board of Directors.



Ed Hansen

Hope College

Ed Hansen is professor of Geology at Hope College where he has been teaching since 1984. He began his research on Lake Michigan coastal dunes in 1999. His dune research has focused on dune history and how physical processes affect the dune formation, growth and migration. He is an author on 13 research papers based on Great Lakes dunes published in scientific journals. He is also an author of a review paper on the dunes along the southeastern shore of Lake Michigan published in a Geological Society of America guidebook and co-editor of a volume of papers on Great Lakes shorelines published by the Geological Society of America.



Shaun Howard

The Nature Conservancy – Michigan Dune Alliance

Shaun Howard is The Nature Conservancy's Eastern Lake Michigan Project Manager. Utilizing the Michigan Dune Alliance partnership framework, he coordinates the restoration of dunes and associated coastal ecosystems along 500 miles of Eastern Lake Michigan shoreline. Shaun is also active in statewide ecosystem restoration efforts, primarily through his work with Cooperative Invasive Species Management Areas and the Michigan Invasive Species Coalition. A Michigan native, Shaun earned a B.S. in Zoology through Lyman Briggs College at Michigan State University. He originally joined The Nature Conservancy in 2010 to implement invasive plant species control in the parabolic and perched dune systems throughout the Northwest Lower Peninsula.



Elaine Sterrett Isely

West Michigan Environmental Action Council

Elaine Sterrett Isely joined West Michigan Environmental Action Council to lead its Water Team in 2012. A veteran of the West Michigan legal and environmental communities, she has held a number of positions in the nonprofit and academic sectors. She's served as Project Manager for West Michigan Strategic Alliance's Green Infrastructure Initiative, Research Associate for the Annis Water Resources Institute at Grand Valley State University, Sea Grant Fellow with the Great Lakes Commission, and litigation attorney for Legal Aid of Western Michigan and the Michigan Migrant Legal Assistance Project, Inc. Elaine has more than 20 years of experience in law, environmental policy, research, outreach, and public speaking. She holds a B.S. in Finance from the University of Maryland, a J.D. from Wayne State University, and an M.S. in Biology/Natural Resources Management from Grand Valley State University. She currently serves at Chair of the Stormwater Oversight Commission, and formerly as the Green Infrastructure Work Group of the Vital Streets Oversight Commission for the City of Grand Rapids. Elaine is also leading efforts for water trail planning and development in West Michigan, along the Lake Michigan shoreline, the Grand River, and in Saugatuck-Douglas Harbor.



Jonathan Jarosz

Heart of the Lakes

Jonathan Jarosz is the Executive Director for Heart of the Lakes. Prior to joining Heart of the Lakes, he served as the Director for University Outreach at the University of Michigan – Flint. Jonathan has worked as a conservation and outdoor recreation planner throughout Michigan and the Great Lakes Region for the past sixteen years. One of Jonathan's passions is advancing on-the-ground solutions that leverage outdoor recreation for conservation gains. His work aims at a unified framework for natural allies that will



influence conservation and outdoor recreation policies at the state level, increasing success in the protection of our lands and waters. Oh, and he likes to have fun, too.

Lynda Lancaster

Indiana Dunes National Lakeshore

Lynda Lancaster is Civic Engagement Program Manager for Indiana Dunes National Lakeshore. She has spent 18 years adventuring across the National Park Service, from Everglades to Denali. Today she lives in Northwest Indiana working at Indiana Dunes National Lakeshore where she enjoys hiking, biking, paddling, and, of course, finding new friends in the region.



Bruce Leutscher

Pictured Rocks National Lakeshore

Bruce Leutscher is Chief of Science and Natural Resources at Pictured Rocks National Lakeshore. He is responsible for managing a wide variety of research projects, inventory and monitor initiatives and conducting field work in the park involving wildlife, fisheries, vegetation, water quality and more. He has been involved with cooperative projects to study Pitcher's thistle ecology and distribution, the ecology of ram's head and calypso orchids, herbicide efficacy studies and native plant recolonization after treatment, and invasive plant control throughout the dune system to protect critical habitats for endemic species.

Before joining the team at Pictured Rocks in 2000, Bruce worked for the University of Michigan coordinating a state-wide forest health and impact monitoring program. He holds a B.S. in Natural Resources and an M.S. in Forestry from the University of Michigan. He and his wife Amy are the proud parents of two young daughters and make their home on Powell Lake.



Melanie Manion

Ottawa County Parks

Melanie Manion is the Natural Resources Manager for Ottawa County Parks in Michigan. She is responsible for the stewardship and restoration of over 6000 acres of park and open space land, in addition to the development of a comprehensive volunteer program. Previously, Melanie worked for the Land Conservancy of West Michigan and Blandford Nature Center. She has a B.S. in Biology and Environmental Science and an M.S. in Conservation Biology from Central Michigan University.



Sarah Nicholls

Michigan State University

Sarah Nicholls is Associate Professor in the Departments of Community Sustainability and Geography, Environment, and Spatial Sciences at Michigan State University. Her work focuses on the role of tourism, recreation and parks in the creation of active, vibrant and sustainable communities in Michigan, the US and beyond. Sarah facilitated the development—and now coordinates implementation—of the 2012-2017 Michigan Tourism Strategic Plan. In 2013, she received the Outstanding Achievement in Michigan Tourism Award from Governor Rick Snyder in recognition of that work. Sarah serves as Chair of the Ingham County Parks and Recreation Commission and is an appointed member of the Michigan Trails Advisory Council.



John Paskus

Michigan Natural Features Inventory

John Paskus is a Senior Conservation Scientist and the Lead Conservation Planner at Michigan Natural Features Inventory and a proud lifetime resident of Michigan. He has over 20 years of experience advancing conservation science and biodiversity protection throughout the Great Lakes region. Over the course of his career, John has worked on a variety of projects that range from statewide assessments to regional conservation action plans to research on policies and land use. He successfully co-led a large scale conservation planning effort with The Nature Conservancy and Nature Conservancy Canada that developed biodiversity conservation strategies for both Lakes Michigan and Erie. This \$600,000, two-year effort involved over 100 organizations from eight states and the province of Ontario. John just recently completed a project with Networks Northwest to identify, map, and classify all the dune systems in the Northwest Lower Peninsula, digitize shorelines for the region, and share that information via a guidebook and GIS Story Map. No matter where life takes him, one thing remains constant: the Great Lakes coastal zone will always have a special place in John's heart.



Robert Richardson

Michigan State University

Dr. Robert Richardson is an environmental economist and Associate Professor in the Department of Community Sustainability at Michigan State University. His research, teaching, and outreach program focuses primarily on sustainable development and the contribution of ecosystem services to socioeconomic well-being. He uses a variety of methods from the behavioral and social sciences to study decision-making about the use of natural resources and the values of ecosystem services. Robert has conducted research related to the economic benefits of wilderness



areas in the western United States, and the impacts of climate change on public lands and protected areas. He has also conducted research related to the valuation of ecosystem services and tradeoffs in decision-making about environmental management in southern and eastern Africa, Central America, and Southeast Asia. His work has been published in *Ecological Economics*, *Environment and Development Economics*, and *World Development*, as well as in other journals. Robert is a member of the Board of Scientific Counselors of the U.S. Environmental Protection Agency, and chairperson of the subcommittee on Sustainable and Healthy Communities.

April Scholtz

Land Conservancy of West Michigan

April Scholtz has been helping communities and landowners protect land in Michigan for 31 years. After six years with The Nature Conservancy she became the first executive director of the Land Conservancy of West Michigan. Now as their director of land protection, she has helped them preserve more than 10,600 acres of west Michigan's wildlife habitats, waterways, and farms, and especially enjoys working with communities to create or expand public parks. April served on the Citizens Committee for Michigan State Parks, participated in Michigan's inaugural Environmental Leadership Institute, and holds a Masters of Biological Sciences from the University of Michigan.



Heather Shumaker

Saving Arcadia

Heather Shumaker is a national speaker on early childhood topics who's been writing professionally since 1996. She started writing for radio and has been published in *New York Post*, *Organic Gardening*, *Parenting*, *Pregnancy*, *Huffington Post* and others. She's an advocate for free, unstructured play in homes and schools and the author of two books on renegade parenting: *It's OK*



Not to Share (Tarcher/Penguin, 2012) and *It's OK to Go Up the Slide* (Tarcher/Penguin, March 2016). She holds a B.A. in sociology/anthropology from Swarthmore College and an M.S. in land resources from the University of Wisconsin-Madison. The environment is one of Heather's greatest joys and passions. She is the author of *Saving Arcadia*, a Great Lakes conservation adventure story, (Wayne State University Press, 2017), and has worked for a variety of environmental nonprofits. She now makes her home in northern Michigan with her husband and two children, where she blogs at Starlighting Mama.

Jon Thompson

Huron-Manistee National Forests

Jon Thompson is a Natural Resource Specialist on the Cadillac-Manistee Ranger District of the Huron-Manistee National Forests.

As the Assistant Ranger, Jon manages Lands and Recreation resources across a district that sees high visitation numbers. Jon spent 17 years in Carbondale, Colorado working on the White River National Forest as a wilderness ranger, trail coordinator, recreation planner and the Wilderness Manager for five Colorado wilderness areas. He is an advocate for outdoor recreation and is passionate about youth sports. Jon lives in Manistee with his wife, Tina, and two kids, Sylvie and Wilder.



Scott Tucker

Sleeping Bear Dunes National Lakeshore

Scott Tucker has been the Superintendent of Sleeping Bear Dunes National Lakeshore since June 2016. A 19-year veteran of the National Park Service, he previously served as the Superintendent of Lewis and Clark National Historical Park, which includes seven units along the Columbia River and the Pacific Coast from Long Beach, Washington to Cannon Beach, Oregon. Before moving to Oregon, Scott held positions in the Washington, D.C. area. He was the Park Manager of President's Park in Washington, D.C., where he had responsibility for the 54 acres of NPS property immediately outside the White House complex. He also served as Manager of Visitor Services at the Smithsonian Institution's National Museum of the American Indian, where, among other accomplishments, he coordinated the museum's grand opening. Scott has also worked for the National Mall and Memorial Parks, the United States Holocaust Memorial Museum in Washington, D.C., and Klondike Gold Rush National Historical Park in Skagway, Alaska. Originally from Colorado, he has a Bachelor's degree in Social Science from the University of Northern Colorado, with minors in History and Archeology. Scott and his wife Josey, who is a Michigan native, have two young children.





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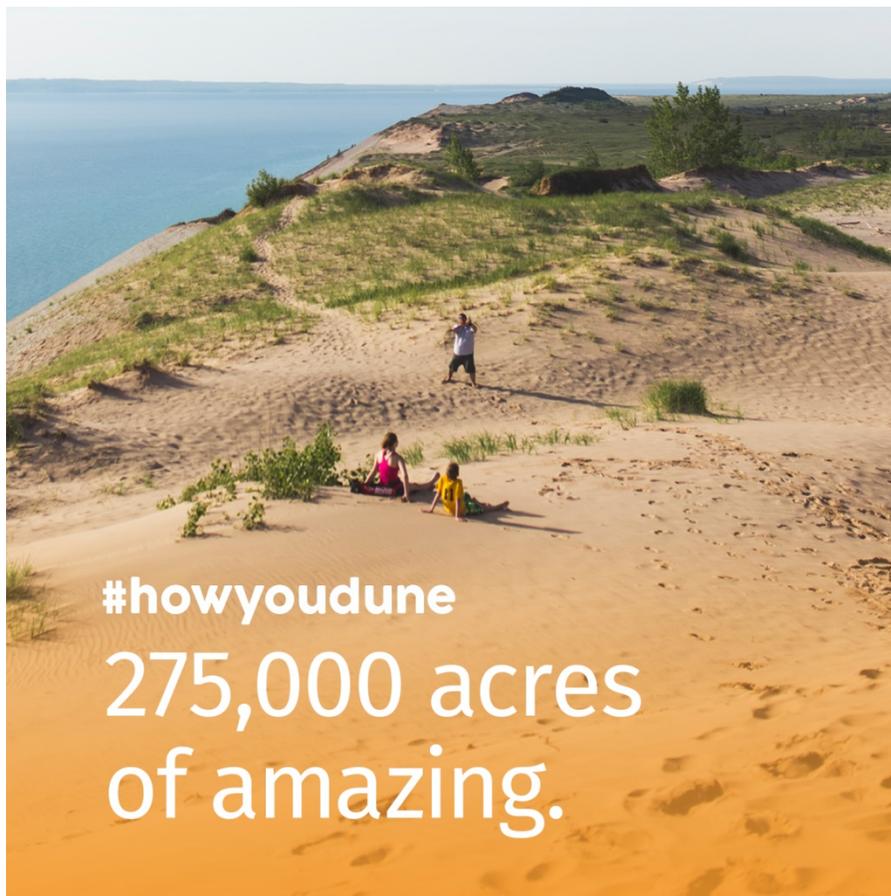
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Appendix F

Samples of #HowYouDune survey outreach efforts

Sample promotional materials



Sample social media graphic



What's your dune story? Sunsets and sandy feet, campfires and coastal climbs, star-filled skies above and waves sliding onshore far below. Savoring time amid our coastal dunes is the epitome of a Michigan summer well spent.

Take a few minutes to complete a survey about your time in Michigan's coastal dunes, and help researchers and planners gain valuable insight about **#howyoudune**

| | | | | | | |
|--|---|---|---|---|--|---|
|  |  |  |  |  |  | Financial assistance for this event provided, in part, by the Michigan Coastal Zone Management Program, Office of the Great Lakes, Department of Environmental Quality and the National Oceanic and Atmospheric Administration. |
| The Michigan Environmental Council, Heart of the Lakes, and West Michigan Environmental Action Council are working to connect the people who research, advocate for, and promote this vital part of our landscape. | | | | | | |

Sample promotional poster



Join Michigan Environmental Council, Heart of the Lakes, and West Michigan Environmental Action Council, and connect with the people who research, advocate for, and promote this vital part of our landscape.



275,000 acres of amazing.

What do the dunes mean to you?

This online survey will provide vital new information about how residents and visitors use and value our amazing freshwater coastal dunes for recreation, relaxation, scenic enjoyment and more.

Please share this link with friends, family and colleagues!

howyoudunesurvey.com



Financial assistance for this project provided, in part, by the Michigan Coastal Zone Management Program, Office of the Great Lakes, Department of Environmental Quality and the National Oceanic and Atmospheric Administration

Sample promotional postcard (front and back)

Businesses and other venues where #HowYouDune Survey marketing materials were made available (partial list)

- Gazelle Sports, Grand Rapids and Kalamazoo
- Running Fit, Northville
- Ray's Bike Shop, Clare
- Jay's Sporting Goods, Clare and Gaylord
- Paddle Hard Brewing, Grayling
- Sand Castle Restaurant, Mears/Silver Lake
- Mac Woods Dune Rides, Mears/Silver Lake
- Silver Point General Store, Mears/Silver Lake
- DNR Outdoor Adventure Center, Detroit
- Recreational Equipment Incorporated (REI), Northville and Ann Arbor
- C.C. Filson Co., Detroit
- Dick's Sporting Goods, Ann Arbor
- Geography Building, MSU Campus
- Hokanson's Camera, Manistee
- The Outpost; Manistee and Holland
- New Holland Brewing Company, Holland
- Herrick District Library, Holland
- Holland Water Sports
- Holland State Park
- MACKites and the MACshack Kiteboarding School, Grand Haven and Muskegon
- Reliable Sport Outfitters, Holland
- Unruly Brewing, Muskegon
- Pigeon Hill Brewing, Muskegon
- Lakeshore Art Festival, Muskegon
- Muskegon Museum of Art
- Muskegon Public Library
- Lakeshore Museum Center, Muskegon
- Sweet Spot Café, Muskegon
- Conservation Resource Alliance, Traverse City
- Alliance for the Great Lakes, Detroit
- Ducks Unlimited, Washington DC
- National Wildlife Federation, Ann Arbor
- Big Lake Outfitters, Saugatuck,
- Saugatuck-Douglas Library
- Saugatuck-Douglas Convention & Visitors Bureau
- Water Street Gallery, Douglas
- Landsharks, Saugatuck
- Marigold Lodge, Holland
- 11 Michigan Department of Transportation (MDOT) Welcome Centers

Social media posts and activity related to promotion of the #HowYouDune Michigan Coastal Dune Survey (examples)

Michigan Department of Natural Resources ✓
August 1, 2017 · 🌐

Savoring time amid our coastal dunes is the epitome of a Michigan summer well spent.

Take a few minutes to complete a survey about your time in Michigan's coastal dunes, and help researchers and planners gain valuable insight about #howyoudune

<http://bit.ly/DuneSurvey>

You, Maia Turek and 92 others · 23 Comments · 22 Shares

Like Comment Share

MParks Michigan Recreation and Park Association ✓
July 28, 2017 · 🌐

What's your dune story? Sunsets and sandy feet, campfires and coastal climbs, or star-filled skies above and waves sliding onshore below.

Take a few minutes to complete a survey about your time in Michigan's coastal dunes, and help researchers and planners gain valuable insight about #howyoudune

<https://www.facebook.com/events/119195018683682>

You and 1 other · 2 Shares

Like Comment Share

Brady Schickinger · Michigan Hiking and Backpacking
August 1, 2017 · 🌐

Passing along this request from MDNR to participate in their dune users survey. <http://bit.ly/DuneSurvey> This is particularly important for those concerned about the diminished quality of public dune areas such as the Northhouse Wilderness from destructive use.

20 · 4 Comments

Like Comment

Christi Marie Poirier Phil Poirier
Like Reply 26w

Christi Marie Poirier Filled out!!! I'm interested to see what comes of this.
Like Reply 26w

Drew Fry great hashtag #howyoudune
Like Reply 26w

Joe Lozen I wonder what their potential solutions for the problems would be.
Like Reply 26w

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Michigan Mountain Biking Association ✓
August 24, 2017 · 🌐

Hey, how you dune?

Savoring time amid our coastal dunes is the epitome of a Michigan summer well spent.

Take a few minutes to complete a survey about your time in Michigan's coastal dunes, and help researchers and planners gain valuable insight about #howyoudune

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2

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Presentations and events hosted during the project (examples)

- Stewardship Network online webinar ("The Most Beautiful Place in America?! Sand Dunes, Outdoor Recreation and the Future of Conservation). Brad Garmon, Elaine Sterrett Isely and Jonathan Jarosz. June 14, 2017 – 28 participants
- Al Arbogast, "Geography and Evolution of Sand Dunes Along the Eastern Shore of Lake Michigan," Mid-Michigan Environmental Action Council First Friday Land Use Luncheon Dunes Presentation. May 5, 2017 – 30 participants
- Al Arbogast, "Geography and Evolution of Sand Dunes Along the Eastern Shore of Lake Michigan," Mac Woods Dune Ride staff and owners at annual all staff breakfast. June 30, 2017 – 28 participants
- West Michigan Community Sustainability Partnership, Allendale. July 27, 2017. Brad Garmon presented information about the dune survey and recruited promotional support from the group, which is made up of seven regional committees committed to developing sustainable neighborhoods and communities. Hosted by Grand Valley State, the group and includes regional partners from: Grand Rapids Community Sustainability Partnership; North West Ottawa County Sustainability Coalition; Muskegon Area Sustainability Coalition; Holland Community Sustainability Committee; St. Joseph/Benton Harbor; Southwest Michigan Regional Sustainability Covenant; and the Ludington Community Sustainability Partnership
- Grand Haven Rotary Club lunch July 31, 2017 and breakfast August 1, 2017. (Grand Haven). Brad Garmon was the presenter at both meeting in late July, during the very popular "Coast Guard Festival" week-long celebration. The luncheon was well attended and the information and request for support of the coastal dune survey was well received. Good connections were made with the Grand Haven CVB, Library, and Grand Haven Mainstreet Downtown Development Authority to help promote the survey.
- Evening on the Lakeshore. (Holland). August 23, 2017. Elaine Sterrett Isely and other staff from the West Michigan Environmental Action Council promoted the dune survey, with accompanying description and background information, as a key project highlight of the event for WMEAC partners, friends and supporters, held at the Marigold Lodge in Holland. Approximately 75 people attended.
- Holland Rotary Club, Aug. 31 2017. (Holland). Brad Garmon was the presenter at another well attended luncheon near Hope College, and the group committed to taking and distributing all the materials that were provided.
- Northwest Ottawa County Sustainability Coalition meeting. (Spring Lake Fire Station). Sept. 13, 2017. Elaine Sterrett Isely from WMEAC presented information about the dune survey and recruited help with participation and promotion to this county-level group.
- "Dunes Day in Detroit" event with C.C. Filson Co. (Midtown, Detroit). Sept. 16, 2017. MEC partnered with Filson, a Seattle-based outdoor gear and apparel store with a storefront located in the destination shopping district of Midtown Detroit (441 W Canfield St, Detroit, MI 48201), to share our dunes survey and promote the project to outdoor enthusiasts. Filson was an ideal partner to co-host the event because of their brand association with outdoor adventure. The event was promoted to Filson's email list and through MEC channels, and to the media, and participants were able to take the survey onsite while also enjoying live music, food and refreshments and learning more

about the project and the dunes from leading experts. Approximately 75-100 people attended or participated.

- “Loving our Dunes to Death? Balancing Enjoyment with Conservation (St. Joseph). Thursday, November 9, 2017. Dr. Arbogast, Dr. Richardson, Brad Garmon and Elaine Sterrett Isely all presented at the event sponsored by the Berrien County Conservation District, Southwest Michigan Planning Commission, Van Buren Conservation District and Southwest Michigan Land Conservancy – 30 attendees.

Content generated during business outreach efforts (examples)



“There are a lot of really great little tourist towns, but the dunes – that’s what makes us who we are. . . . We’ve been here for 14 years. When we opened the store we started right off with sandboarding. . . . It’s getting out there more, and people are asking [for it] more and more. Our business is doing way better.”

Terri Sharpe, Owner of The Sand Box, Silver Lake, Michigan



“When you grow up here, you don’t think about how the dunes draw people. . . . It’s amazing how many people come from all over the world to check out these dunes. You have days when you’ll have people from Germany, China, Japan, all on one ride even. You understand when you come back and work here how this is a huge draw. It brings people in from all over the place.”

Tim Olson, co-owner, Mac Woods Dune Rides, Silver Lake Dunes State Park, Mears, Michigan



“We scheduled several of our Moxie Wild trips on the lakeshore, utilizing the dunes in different ways, hiking, biking, foraging, looking at what’s available to eat sustainably on the dunes was really interesting. . . I think the whole state is like that, regardless of what you choose to recreate in, you can find something and have your breath taken away by how beautiful it is.”

Melissa Werkman, co-owner of Moxie Wild (an adventure outfitter for women), Grand Haven

Art produced by Michigan's dunes-focused artists (examples)



Edward Duff, #1 2.5x3.5, oil on paper, 2017



Brian Smith, Above the Point 24x48



Joan Richmond, Lone Tree at Dune Path 640x385