

# First-Year Research in Earth Sciences: Dunes

## FYRES: Dunes Research Reports

Pdfs of all reports are available on the FYRES website at [calvin.edu/go/fyres](http://calvin.edu/go/fyres).

36. Schumerth, Noah, Kelly Adamovicz, Simon E. Detmer, David Martinez Vasquez, Jessie VandeKieft, Madelyn Vander Veen, and Catherine Worthington. 2019. "Distribution of Eastern Hemlocks and Woolly Adelgid Infestation on a Michigan Coastal Dune System." FYRES: Dunes Research Report #36. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 27 p.
35. Duimstra, Peter, Christopher H. Anderson, Katherine C. Benedict, Haleigh I. Bos, Kees VanDerAa, Lesley Vargas, and April Volzer. 2019. "Considering Management for a Blowout in Kitchel-Lindquist-Hartger Dunes Preserve." FYRES: Dunes Research Report #35. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 16 p.
34. Leisman, Hans, Rachel Commons, Noah DenBleyker, Josh DeVries, Jake Mulder, Kyra Schofield, and Abby Voskuil. 2019. "Investigating a Natural Blowout: The Beginning of a Comparison Study." FYRES: Dunes Research Report #34. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 24 p.
33. McClellan, Jennifer, Asher Amundson, Keagan DeVries, Chynna Pomales-Stohr, and Garrett Rhoads. 2019. "Can *Cirsium Pitcheri* Patterns Be Used to Assess Blowout Activity?" FYRES: Dunes Research Report #33. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 18 p.
32. Madrid, Maia, James Byker, Claire C. Costello, and Gabriela R. Lantinga. 2018. "Measurement of Alongshore Dune Sediment Budgets and Movement" FYRES: Dunes Research Report #32. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 13 p.
31. McClellan, Jennifer A., Camilla J. Bjelland, Aidan N. Casillas, Samuel S. Jacobs, Alyssa J. Topping, and Klein D. VerHill. 2018. "Impacts of White-Tailed Deer on a Lake Michigan Parabolic Dune System" FYRES: Dunes Research Report #31. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 14 p.
30. In printing stage.
29. Praamsma, Stephanie A., Olivia J. den Dulk, Kyle R. Post, Hudson R. Siegers, and Ben J. VanderWindt. 2017. "Wrack's Influence on the Foredunes of Lake Michigan." FYRES: Dunes Research Report #29. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 19 p.

28. Wierenga, Matt, Caleb E. Boraby, Cameron S. Doan, Tanner J. R. Huizenga, and Hunter Pham. 2017. "Distribution of Oak Trees on North Ottawa Dunes." FYRES: Dunes Research Report #28. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 12 p.
27. Paquette, Alissa J., Shira Davis, Mallory H. Hoatlin, Hannah M. Spaulding, and Camille VanderVeen. 2017. "Investigating a Boardwalk's Effect on a Lake Michigan Coastal Dune." FYRES: Dunes Research Report #27. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 14 p.
26. King, Rebecca L., Edward R. Lambert, Benjamin W. Steenwyk, Jaimie E. Van De Burg, Jonathan D. Walt, Matt Wierenga, Elizabeth Wiley. 2017. "Oak Wilt and Dune Stability in North Ottawa Dunes." FYRES: Dunes Research Report #26. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 16 p.
25. Jacques, Issac J., McKinley C. Anderson, Amy E. Bristol, Janay Faulkner, and Joshua Polanski. 2017. "Evaluation of Stability and Restoration of a Michigan Coastal Dune." FYRES: Dunes Research Report #25. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 14 p.
24. Lindemulder, Carolyn R., Jamie E. Atkinson, Araceli Eikenberry, Liam M. O. Ferraby, Taylor M. Grasman, Taylor Hartman, and Erick Westphal. 2017. "Characteristics of a Partially-Vegetated Slipface as Indicators of Dune Advance." FYRES: Dunes Research Report #24. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 21 p.
23. Williams, Matthew L., Anna Clousing, Samuel Latimer, Jennifer A. McClellan, and Andrew D. Van De Walker. 2016. "The Relationship between Physical Accessibility and Scenic Experiences on West Michigan Coastal Dunes." FYRES: Dunes Research Report #23. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 19 p.
22. Grevengoed, Lincoln G., Sarah DeGraaf, Hans P. Leisman, Megan McNamara, and Sam Sukaria. 2016. "Interactions Between Sequential Blowouts, Their Features, and Sand Transport." FYRES: Dunes Research Report #22. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 16 p.
21. Messina, Michael G., Nathaniel H. Bos, Ellis O. Chalfant, DeAnna Clum, and Carolyn Lindemulder. 2016. "Dune Habitat Influences Threatened Thistle: *Cirsium pitcheri* at Rosy Mound Natural Area." FYRES: Dunes Research Report #21. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 24 p.
20. Etienne, Kaitlyn, Alejandra Crevier, Jack M. Davis, Stephanie A. Praamsma, and Adrienne Tauscheck. 2016. "Evaluating Sand Fence Placement, Purpose, and Efficacy on West Michigan Dunes." FYRES: Dunes Research Report #20. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 19 p.
19. Gerber, Kathryn E., Christina J. Bohnet, Lauren B. Ebels, and Madison B. Springer. 2016. "Environmental Assessment of a *Cirsium pitcheri* Restored Population on the

- Coast of Lake Michigan.” FYRES: Dunes Research Report #19. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 15 p.
18. Reynolds, Charlotte O., Rachel M. Conover, Megumu Jansen and Nathan Mulder. 2016. “Investigation of Variables Affecting a Rare Plant Species, *Cirsium pitcheri*, on Mt. Baldy in P.J. Hoffmaster State Park.” FYRES: Dunes Research Report #18. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 15 p.
  17. LePage, Gabe, Bastian Bouman, Benjamin Johnson, Ryan Kiper and Madison Smith. 2015. “Boardwalk Interactions with a Lake Michigan Dune System.” FYRES: Dunes Research Report #17. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 28 p.
  16. Swineford, Jacob T., Grant Hoekwater, Issac J. Jacques, Manny L. Schrotenboer and Matt Wierenga. 2015. “Long-term Effects of Planted *Ammophila breviligulata* on North Beach Dune.” FYRES: Dunes Research Report #16. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 17 p.
  15. Gerber, Kathryn E., Melanie A. Compagner, Rachel L. DeHaan, Jessica A. Petrie, and Jen-Lyn Sin. 2015. “Efficacy of Planted Vegetation and a Sand Fence at Castle Park Dune Preserve.” FYRES: Dunes Research Report #15. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 17 p.
  14. Hilbrands, Brian D., Jesse L. Damsteegt, Brian P. Hess, Madeline G. Hughey, Jake A. McCusker and Jacob C. Van Wyk. 2015. “The Impact of Deer on Unmanaged Trails in North Ottawa Dunes County Park.” FYRES: Dunes Research Report #14. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 14 p.
  13. Strydhorst, Natasha, Samuel Franklin, Lemuel Ong and Aaron Pemberton. 2015. “Characteristics of a Natural Vegetation Population on a Lake Michigan Fore-dune.” FYRES: Dunes Research Report #13. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 21 p.
  12. Liu, Chengbi, Lincoln Grevengoed, Matthew Haugh, Megan Koopman, Isla Peterson, and Logan Walters. 2014. “An Investigation of the Relationship between Deer and Trails in North Ottawa Dunes.” FYRES: Dunes Research Report #12. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 20 p.
  11. Burkley, Katie, Abigail Hocking, Barak Howell, Eric Medema, Joel Newswanger, Cal Thorne, and Angela Tiemeyer. 2014. “Blowouts and Unmanaged Trails in Hoffmaster State Park, Michigan.” FYRES: Dunes Research Report #11. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 18 p.
  10. Swineford, Jacob T., Joshua K. DeVries, Nichole DeVries, Jonathan D. Gorter, Jacob Santucci, and John T. Spykman. 2014. “The Impacts of Three Autumn Storms on a Lake

- Michigan Fore-dune.” FYRES: Dunes Research Report #10. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 14 p.
9. Strydhorst, Natasha, Carolina Angulo, Anna Camilleri, Ethan DeVries and Anna Selles. 2014. “Dune Environment Influences on a Rare Great Lakes Thistle: An Investigation in Ottawa County Parks’ Rosy Mound Natural Area.” FYRES: Dunes Research Report #9. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 20 p.
  8. Karsten, James, Gabriel LePage, Michael Messina, Daniel Shisler and Jory Smith. 2013. “Sand Transport and Vegetation on Two Lake Michigan Blowouts in Ottawa County, Michigan.” FYRES: Dunes Research Report #8. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 22 p.
  7. Brinks, Linden, Kathryn E. Gerber, Jen-Li Sin, Jacob T. Swineford and Alek K. Zapata. 2013. “The Effects of Two Fall Storms on a Lake Michigan Fore-dune.” FYRES: Dunes Research Report #7. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 17 p.
  6. Arevalo, Joseph, Taylor Emmons, Sarah Harefa, Ashley Van Wyk and Jacob Zondag. 2013. “Effectiveness of Management Techniques at Mt. Pisgah.” FYRES: Dunes Research Report #6. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 32 p.
  5. Musch, Steven, Elaine Hilverda, Evan Legge, Natasha Strydhorst and Lucas Vander Bilt. 2013. “Interactions Between Dune Trails and *Cirsium Pitcheri* Habitat.” FYRES: Dunes Research Report #5. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 17 p.
  4. Bleeker, Tyler, Cassandra Miceli, Josh Nieuwsma and Eleighna Prather. 2013. “Efficacy of Sand Fences in Stabilizing a Steep Active Dune Blowout, Castle Park Reserve, Michigan.” FYRES: Dunes Research Report #4. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 20 p.
  3. Whalley, Kyle, Chris Maike, Gideon Berghuis, Luke Cousino, John Elenbaas, James Karsten, Jessica Trojanowski. 2012. “Interactions Between Dune Activity and Oriental Bittersweet on Castle Park Dune, Michigan.” FYRES: Dunes Research Report #3. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 17 p.
  2. Parkin, Ann, Catherine Hilbrands, Joanne Hulst, Elizabeth Stranzenbach and Sam Vannette. 2012. “Analysis of Management Efforts at North Beach Park Dune, Michigan.” FYRES: Dunes Research Report #2. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 14 p.
  1. Stratz, Jared, Rian Bylsma, Sydney Carrick, Hannah Damsteegt and Timothy Nykamp. 2012. “Interactions between Blowouts and Trails in a Lake Michigan Coastal System.” FYRES: Dunes Research Report #1. Grand Rapids (MI): Department of Geology, Geography and Environmental Studies, Calvin College. 16 p.