

Nature Preschools in the United States 2022 National Survey

Photo: South Mountain Nature School

natural start alliance



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eeWORKS \(\bar{\sqrt{}}\)



Early Childhood Environmental Education: Time in Nature and More

Researchers from Stanford University examined the research literature and found that a variety of approaches in early childhood environmental education can lead to positive outcomes for children.



















Time to Reflect, Think & Observe

Knowledge & Skill Development

Personal Connection

Nature Supports Early Childhood Education



Nature Is a Positive Setting for Learning

- Calmer and quieter settings
- Warmer relationships, cooperation
- Loose parts and autonomy promote creative, self-directed play

Nature Acts Positively on Learners

- More attentive
- Less stressed
- More self-disciplined
- More engaged and interested

Kuo Ming, Barnes Michael, Jordan Catherine. 2019. Do Experiences With Nature Promote Learning? Converging Evidence of a Cause-and-Effect Relationship. Frontiers in Psychology. Volume 10, Page 305 DOI=10.3389/fpsyg.2019.00305

Nature Promotes Children's Health

- More physical activity
- Better mental health

Amber L. Fyfe-Johnson, ND, PhD; Marnie F. Hazlehurst, MS, PhD; Sara P. Perrins, EdM, PhD; Gregory N. Bratman, PhD; Rick Thomas, MESM, MS; Kimberly A. Garrett, MPH; Kiana R. Hafferty, BS; Tess M. Cullaz, BS, BS; Edgar K. Marcuse, MD, MPH; Pooja S. Tandon, MD, MPH. Nature and Children's Health: A Systematic Review. Pediatrics (2021) 148 (4): e2020049155.



Counting Nature Preschools

- Nature preschools are not necessarily members
- Staff make a quick determination based on public information
 - Is it a "school" and is it "naturebased?"
- Including is not an endorsement
- Not including does not reflect program quality







Key Characteristics of Nature Preschools

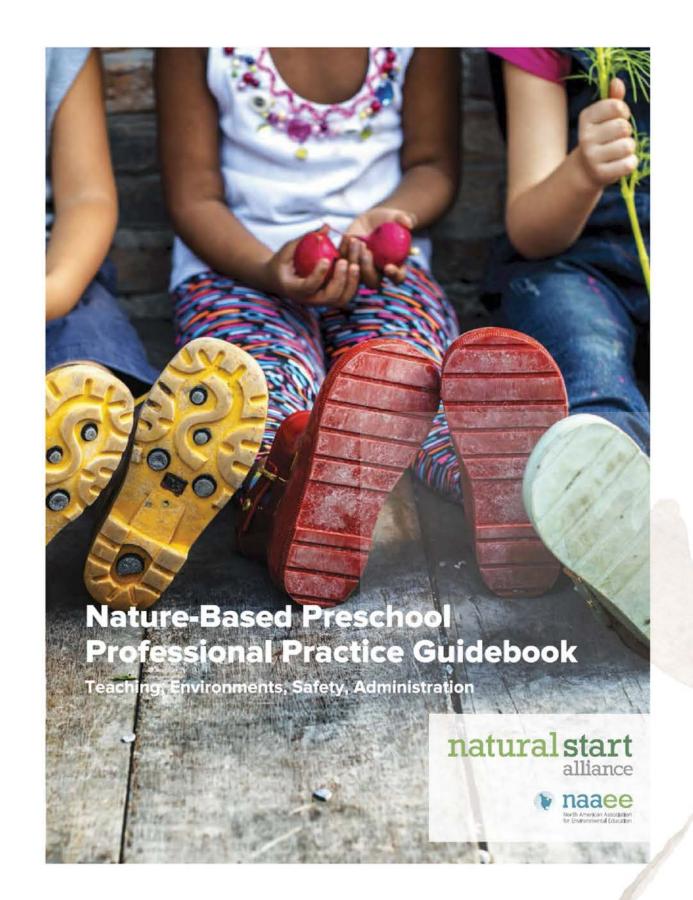
- Goals for child development and environmental literacy
- Nature central in curriculum,
 "nature-based" program
- Child-led, play-based approach
- Significant time outside
- Appropriate risk taking





Nature-Based Preschool Professional Practice Guidebook

- Describes practices in
 - Teaching
 - Environments
 - Safety
 - Administration
- Download the introduction at naturalstart.org





Early Programs at Nature Centers









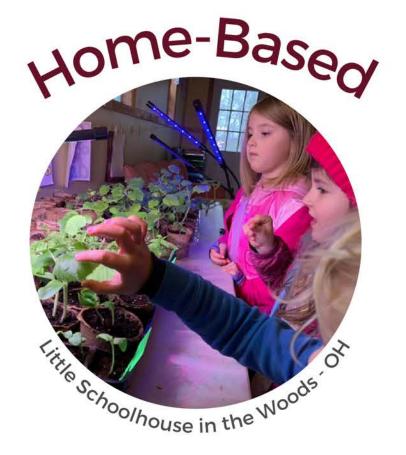
New Canaan Nature Center Connecticut

Dodge Nature Center Minnesota

Schlitz Audubon Nature Center Wisconsin

Chippewa
Nature Center
Wisconsin









Wide Variety in Program Types









Past Reports











Washington Nature Preschool Association

Nature Preschools and Forest Kindergartens 2017 NATIONAL SURVEY

Nature-based preschools and kindergartens continue to rise in popularity in the United States. A national survey of nature-based early childhood educators conducted in 2017 identified more than 250 nature preschools and forest kindergartens operating across the country. The programs serve approximately 10,000 children every year, and eight out of ten programs report that they started a waiting list in the previous twelve months. However, the survey also suggests that the nature-based programs do not reflect the cultural and linguistic diversity of our nation.

The survey was jointly conducted by the Natural Start Alliance, the Eastern Region Association of Forest and Nature Schools, the Northern Illinois Nature Preschools Association, and the Washington Area Nature Preschools Association.

Suggested citation: North American Association for Environmental Education (NAAEE). (2017). Nature preschools and forest kindergartens: 2017 national survey. Washington, DC: NAAEE.



2017

2020

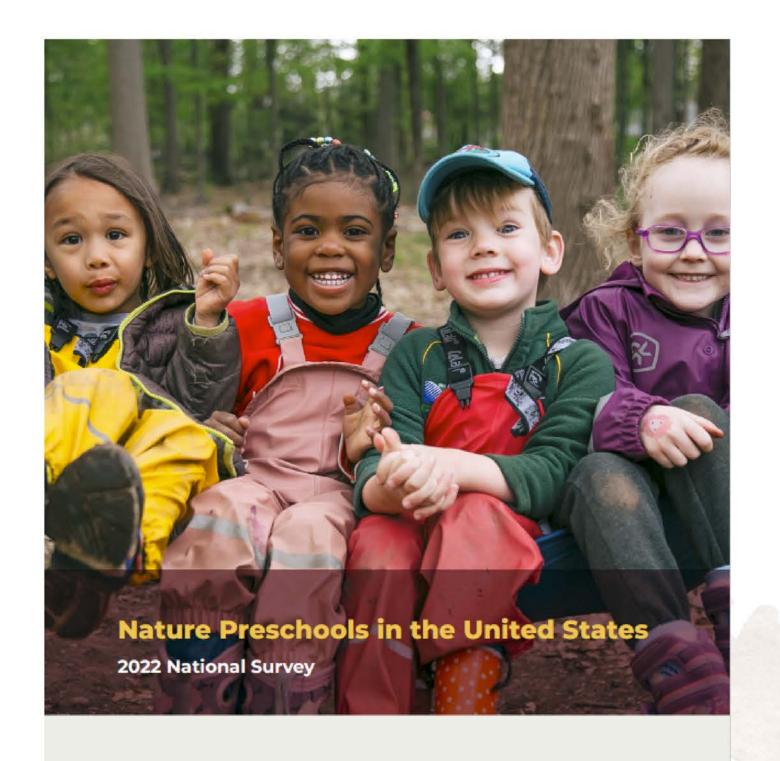
2022 National Survey

- Program Count
- Program Operations

• Children's Characteristics

• Staff Characteristics

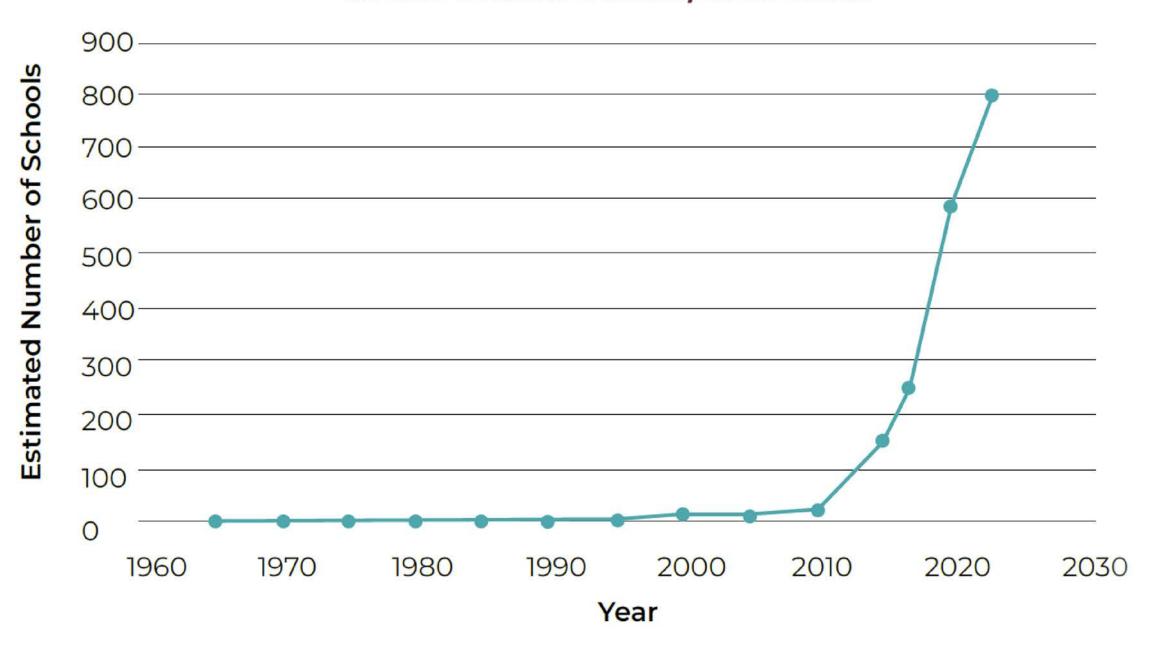








Estimated Number of Nature Preschools in the United States, 1965-2022





Highest Number of Nature Preschools by State







California

Washington

Minnesota

Highest Number of Nature Schools Per Capita







Vermont

Maine

New Hampshire









Time Outside

- Most of the school day is spent outdoors: 70% of programs spend 70% or more of their school day outside
- Time outside increased from 75% of school day in 2017 to 80% in 2022
- Nearly a third (30%) of programs spend the entire school day outside
- Full-day programs spend 5 hours per day outside and half-day programs spend 3 hours outside on average





Covid Impacts

- Half of programs say pandemic increased time outdoors
- 80% say it increased demand (survey did not include closed programs)
- Brought mental health challenges for children and staffing challenges for programs



Durham Community Preschool

Durham, North Carolina











"The children are so strong from playing outside – it's incredible! Their laughter, curiosity, and excitement has blessed us every day. As teachers, we have grown stronger too. We are learning a different way of teaching."

Public Lands

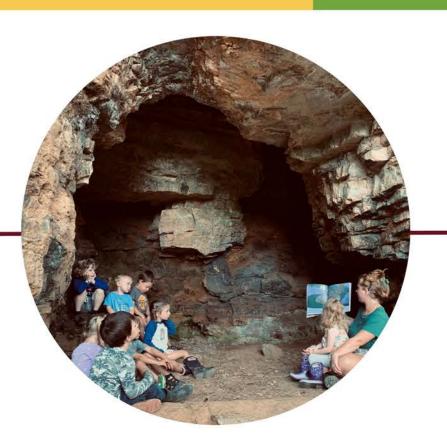
- More than half of nature preschools (55%) operate on or visit public lands
- Public lands may include municipal parks, county parks, national forests, or national parks











natural start alliance

Appalachain Forest School

How Programs Use Public Lands

Northeast LA Forest School





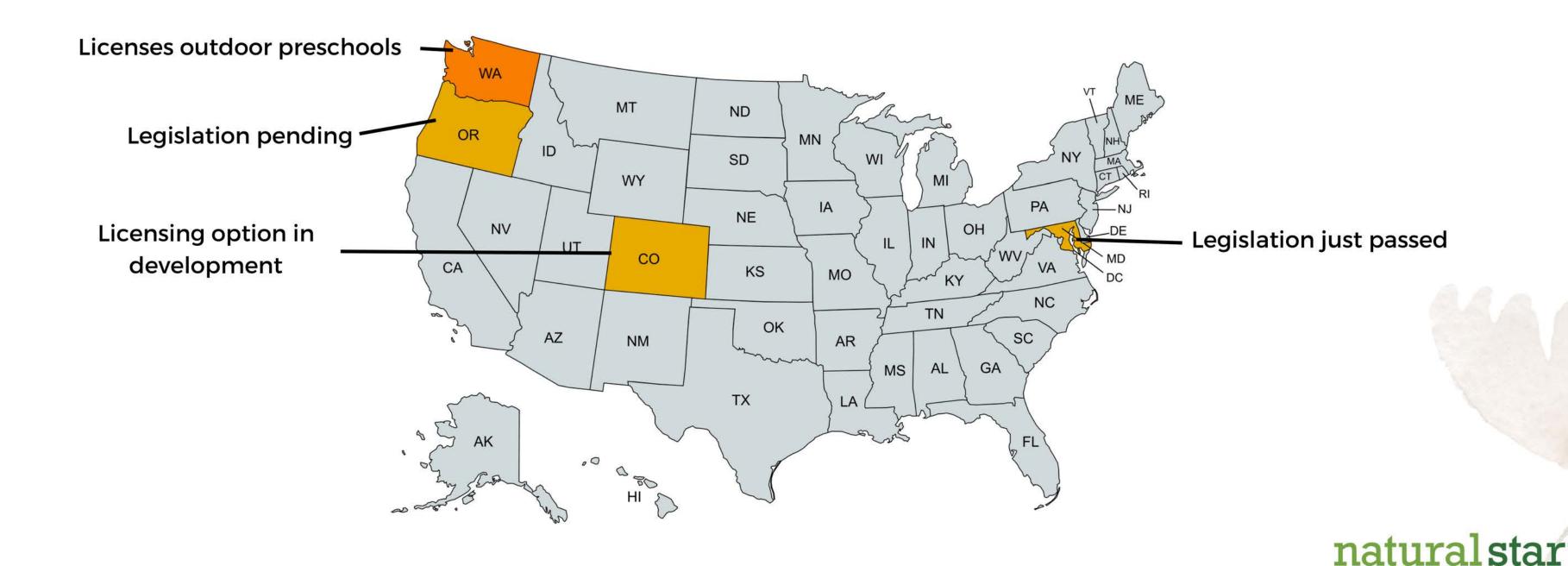


Licensing

- Licensing can be challenging for outdoor programs
- Without licensing, no public funding for programs
- 58% of nature preschools are licensed
- Just 15% of all-outdoor programs are licensed
- Licensing rates haven't changed since 2017



States with Outdoor Preschool Licensing or Pending Legislation



alliance

Created with mapchart.net

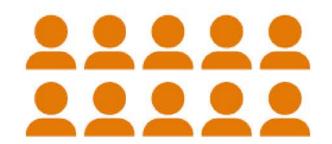


Outdoor Nature-Based Child Care Licensing



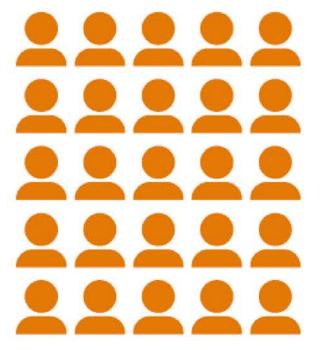


Total Number of Children Served



10,000 Children Annually

2017

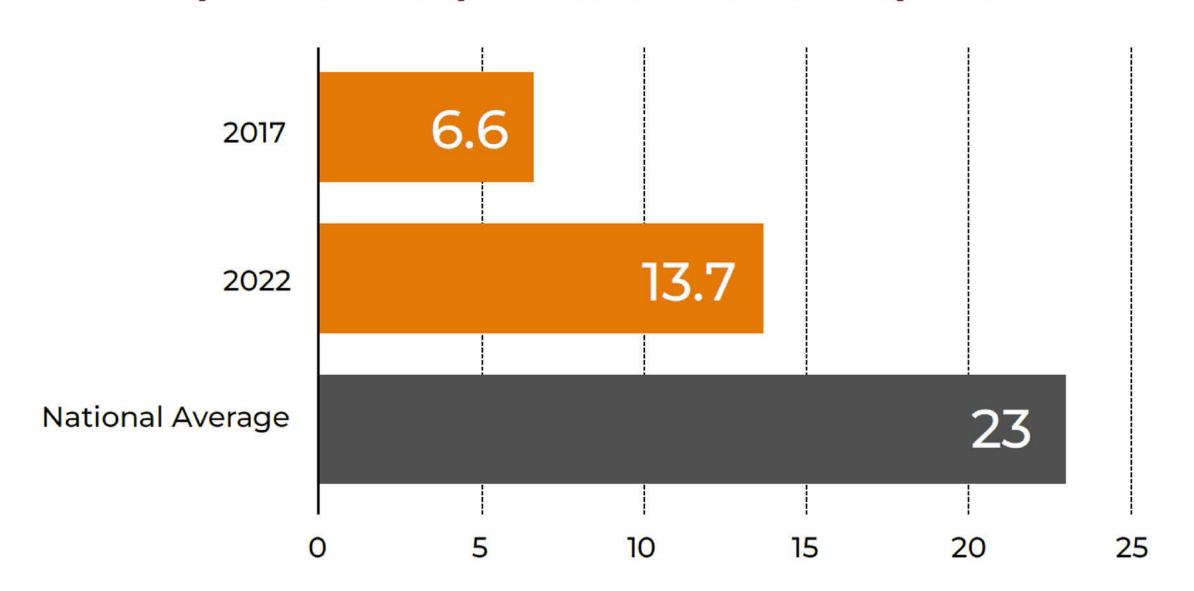


25,000 Children Annually

2022



Average Percent of Multiple-Language Learners in Nature Preschools (2017 and 2022) and the Overall U.S. Population





Dual Language, Language Immersion











Chavitos Nature School Washington

Amigos del Bosque Minnesota

Aventuras
Forest School
California

My World Mandarin Nature School Washington

Rainbow Mandarin Nature School Washington

Children with Disabilities and Special Needs

- Nature preschools serve children with disabilities at similar rates as public schools
- Average percent of children with disabilities in programs is up from 2017:
 - 4.7% in 2017
 - o 8.3% in 2022





Secret Forest Playschool

Duluth, Minnesota



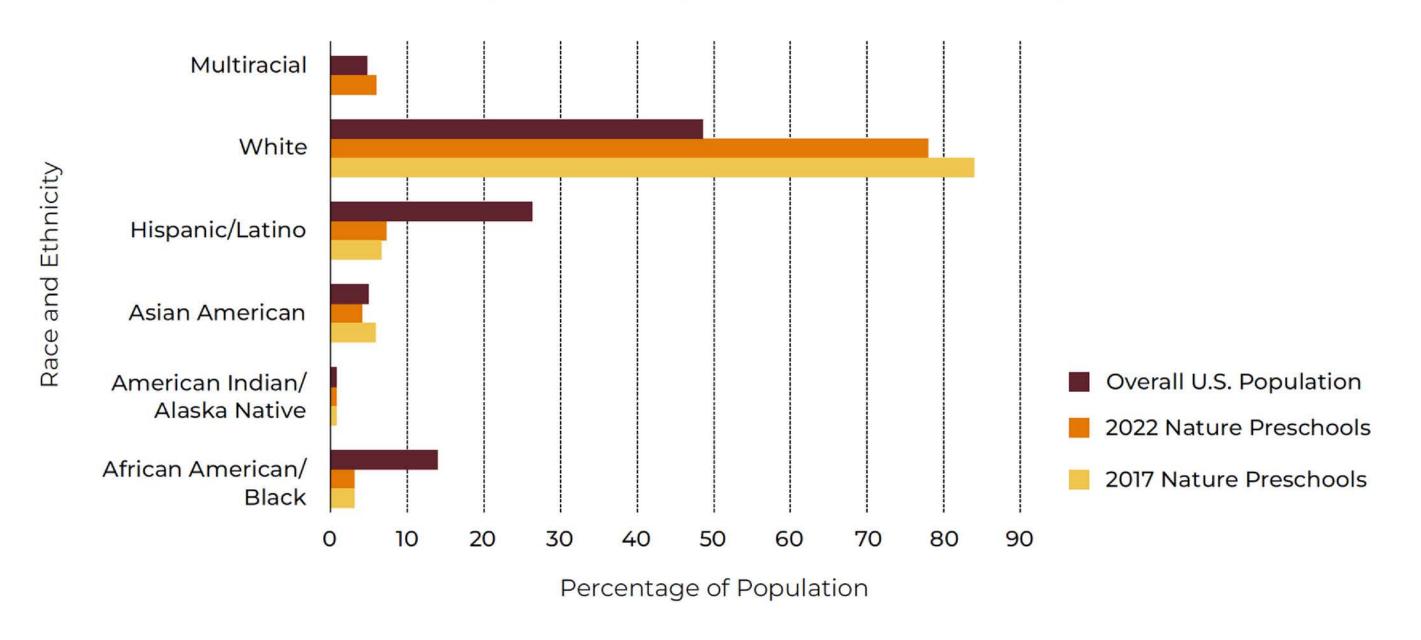








Percentage of Children by Race and Hispanic Origin in Nature Preschools (2017 and 2022) and in the Overall U.S. Population





What is Driving Differences in Participation?

- Cost?
- Program Location?
- Program Length?
- Educational Preferences?
- Safety Concerns?
- Staff and Child Representation?
- What Other Factors to Consider?







Total Staff

Total Workforce:

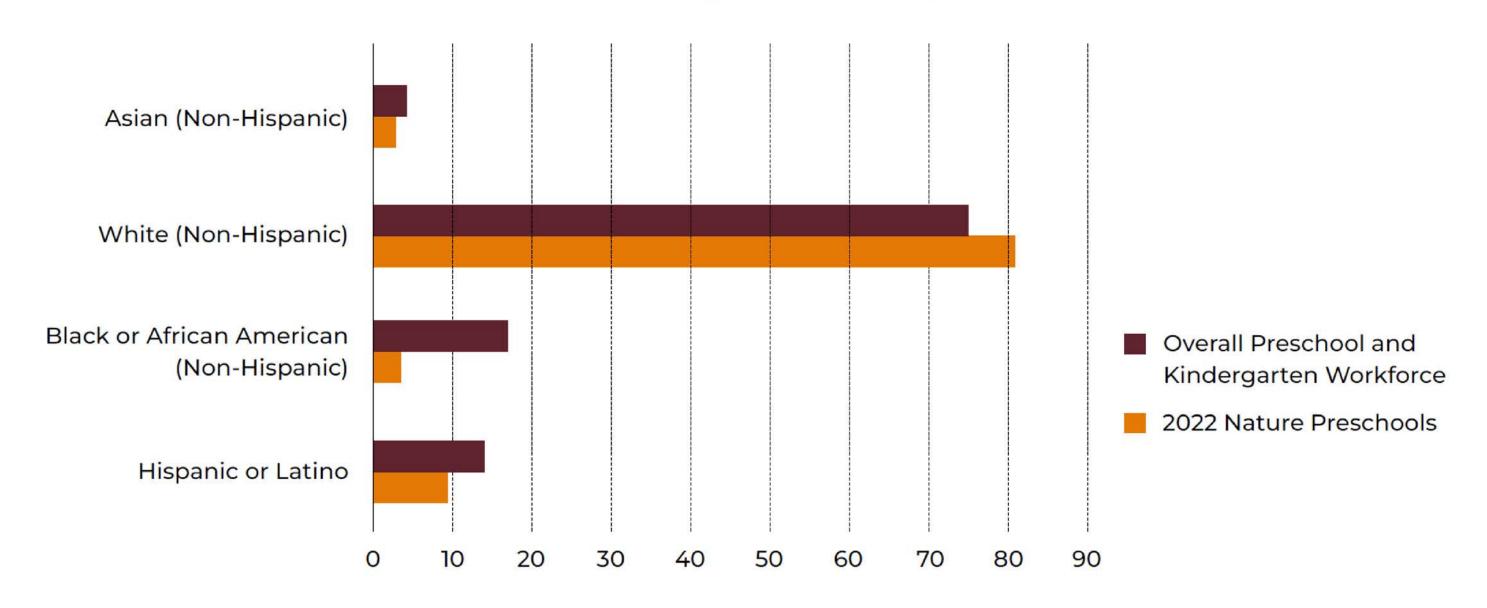
Photo: Appalachian Forest School

- 2022: 6,000 professionals
- 2017: 1,500 professionals
- Average staff per program largely the same
- Growth in workforce due to growth in programs





Nature Preschool and Overall Preschool and Kindergarten Workforce by Race/Ethnicity





Backyard Basecamp

Baltimore, Maryland







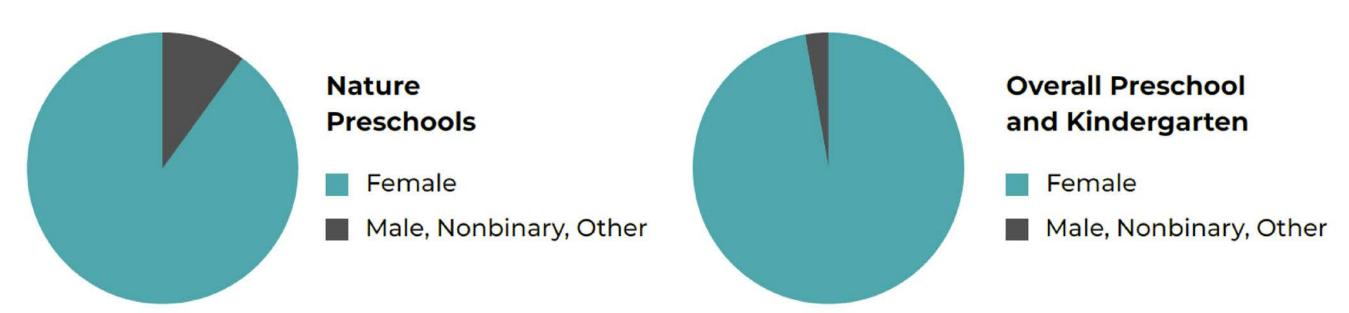




Backyard Basecamp

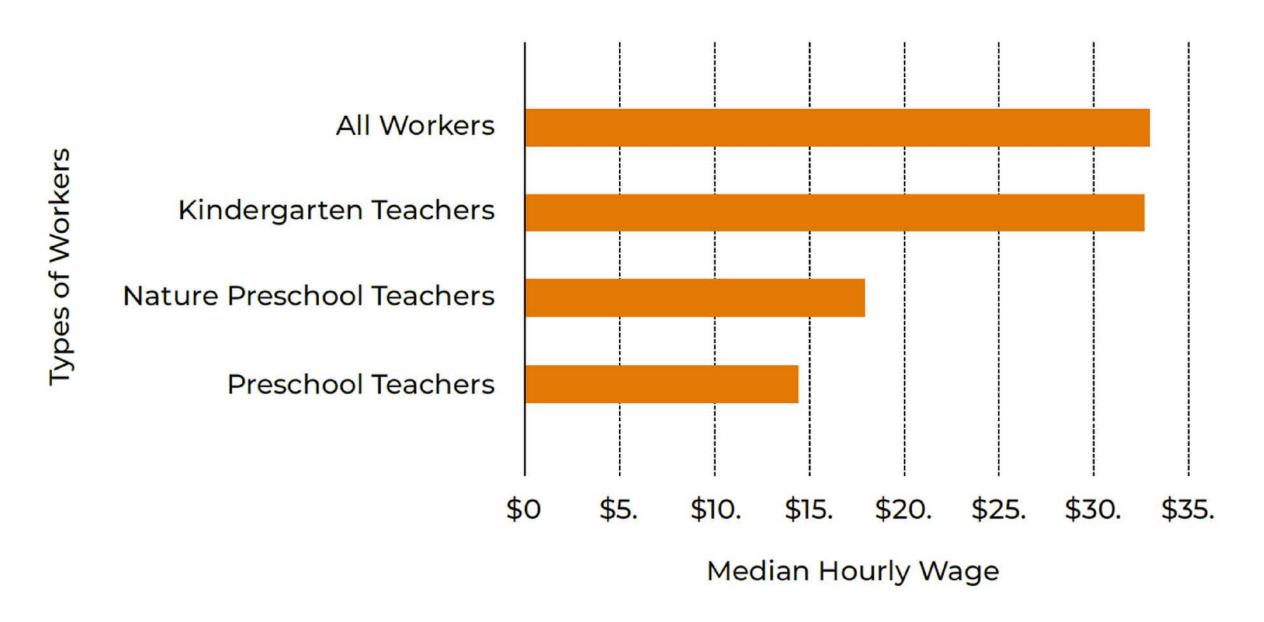


Gender in the Workforce





Median Wages for Preschool Teachers, Kindergarten Teachers, and the Average U.S. Worker







Professional Training

- Unique practices and considerations, particularly around safety
- There are now degree programs, certificates, and certification programs, but more is needed to support growth
- Professional development programs can specifically address racial and ethnic disparities in the workforce

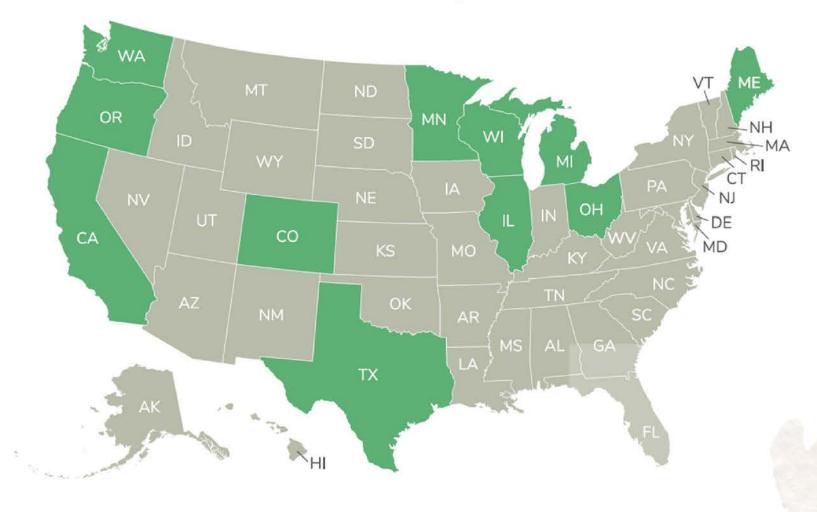




Professional Networks

- Growing national network of state and regional nature-based early education groups
- Groups focus on professional training, professional connection, and advocacy
- Most are volunteer-run with limited capacity

Natural Start Alliance Regional Network





Policy Change for Outdoor Learning

- Licensing for outdoor preschools can add capacity to the early care and education system
- Public funding can help make outdoor learning more accessible for families
- Licensing regulations can elevate the importance of outdoor environments





Nature for Every Child

- Diffusion of nature across the early childhood landscape is the goal
- Every school need not be a nature preschool
- Every child deserves a highquality education and opportunities to play and learn in nature



Photo: Appalachian Forest School

