

# Affordable, Natural Playgrounds

by Ron King, President  
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With the world of play dominated by manufactured playgrounds, it may be hard to understand the importance of going in a different direction, but there is good reason to change course and explore a much more viable playground option.

Montessori and other schools can save lots of money by creating sustainable, philosophically consistent, natural playgrounds that are safer and meet green standards, yet challenge kids emotionally, physically, and mentally.

Over the past six decades, playground equipment manufacturers have been the sole source for answers to questions about play, children, and safety. When a new playground was needed, or one needed refurbishing, decision-makers always turned to these companies to give them the most up-to-date playground equipment that met the newest ASTM and CPSC safety standards.

But the injury statistics suggest that this confidence may be misplaced. Despite the stringent safety regulations, over a half million playground equipment-related accidents are reported every year.

In 2006, the American Academy of Orthopaedic Surgeons reported these injuries occurring among people younger than 20. More than 177,000 injuries came from monkey bars or other climbing equipment, nearly 128,000 from swings, more than 113,000 from slides, and thousands more from other playground equipment.

The estimated cost for these injuries? \$12.8 billion in medical, legal and liability, pain and suffering, and work-loss expenses.

But the costs don't stop there. About every 10 years, when the equipment becomes outdated, out-of-code, or out-of-compliance, it has to be replaced, so it's dumped in the trash and replaced without a thought, sometimes at great sacrifice to other, more pressing program needs.

But casting this equipment in the dump is also at great cost to the environment, because the carbon footprint (the total carbon dioxide and other greenhouse gases emitted during production, shipping, use, and trashing of out-of-compliance playground equipment every 10 years) is ominously high.

Put all this up against the fact that the initial cost of equipment is also very high, especially in relation to its play value (the kind and amount of play per child, per dollar), and the fact that with the uncertain price of oil, prices for play components with a petrochemical-based will continue to soar even more, equipment-based playgrounds are very expensive, indeed.

Luckily, there is another, very viable, less costly, and much more environmentally friendly playground option.

We work with Montessori schools, public schools, and childcare centers all around the country, so we have plenty of opportunity to ask students, teachers, and parents about issues on their playgrounds.

Without question, the one issue that is constant: children are easily bored trying to play on equipment that is not challenging, and that offers nothing new day after day.

During our interactive, PowerPoint presentation to parents and teachers, there is a point where we ask each person to share their most vivid memories of fun things they did when they were children. The list is endless; activities include building forts, climbing trees, walking in the woods, playing in the water, looking for bugs, digging in the sand, and so on.

Now the interesting thing is, when we ask children today to share their most fun, outdoor experiences, they say the exact same things! (To be fair, we do have to tell them that organized sports, shopping at the mall, playing with computerized games and toys, and riding motorized machines are off the table.) Playing in the dirt, making forts, splashing in the water, climbing rocks, running through the tall grass, and just being quiet are but a few of their favorite things.

So an obvious question is: if adults loved (and remembered years later!) these kind of outdoor activities when they were young, and their children like the very same activities today, why do we give them expensive and boring plastic and metal playgrounds surrounded by a sea of woodchips?

The fact that children like being outdoors and connected with nature in very fundamental ways is good news, indeed, because there is now an overwhelming body of research showing direct links between exposure to nature and the physical, mental, and emotional well-being of children. Children are sick less often when exposed to nature, which lessens the overall costs to families associated with children being sick, and they do better in school.

This is the impetus behind natural playgrounds.

“Natural playgrounds,” says Wikipedia, “are play environments that blend natural materials, features, and indigenous vegetation with creative landforms to create purposely complex interplays of natural, environmental objects in ways that challenge and fascinate children and teach them about the wonders and intricacies of the natural world while they play within it.

“Play components may include earth shapes (sculptures), environmental art, indigenous vegetation (trees, shrubs, grasses, flowers, lichens, mosses), boulders or other rock

structures, dirt and sand, natural fences (stone, willow, wooden), textured pathways, and natural water features.”

To sum it up:

- Natural playgrounds are designed to expose children to the beauty and wonder of nature while challenging them physically and mentally.
- Natural playgrounds are sustainable because they use natural resources in their basic form, and do not require components that are not easily replaced by nature.
- Natural playgrounds have a low carbon footprint, as materials used for them are not manufactured and are generally available locally.
- Natural Playgrounds provide 3½ times more play items at very high play values for the same dollars spent. For example, a 20,000 square foot Natural Playground efficiently utilizing all of its square footage cost \$90,000 for 430 high play value elements. This cost is compared to one piece of equipment also costing \$115,000 but only having 43 play items at very low play value and utilizing only 2,500 square feet.

Bottom? Natural playgrounds are a cost-effective and philosophically consistent approach to outdoor play and learning that result in better, more healthy students, more beautiful surroundings, and a healthier environment.

*The Natural Playgrounds Company is headquartered in Concord, NH and works all over the US. They can be reached through the web at [www.naturalplaygrounds.com](http://www.naturalplaygrounds.com), by email at [info@naturalplaygrounds.com](mailto:info@naturalplaygrounds.com), or by toll free phone 888-290-8405.*

## **Sidebar #1**

Side benefits of a lower tech, Natural Playground

- inexpensive solutions to drainage issues,
- increased wildlife habitats,
- indigenous landscaping,
- greening of school grounds,
- beautification of the property and the neighborhood
- age appropriate play
- safer play
- more, fun options for children of all ages
- Timelessness

- Leeds certification
- higher enrollment and longer waiting lists
- they are consistent with the Montessori philosophy

## **Sidebar #2**

For the same price as equipment-based playgrounds, natural playgrounds have

- 10 times more play items
- significantly higher play value
- low carbon footprints
- and
- Use 100% (as compared to 13%) of the available land area,
- are totally sustainable, and
- offer all the health benefits of nature.