# A PARENTS' GUIDE TO NATURE PLAY

How to Give Your Children More Outdoor Play

... and Why You Should!

by Ken Finch Green Hearts INC





www.greenheartsine.org

We need to give them (children) time butdoors, where they can meet and savor the world that humans have not made pill bugs on a sidewalk, a swarm of tadpoles in a puddle, a tree for climbing, a sky affame with sunset, a kiss of wind.

- Scatt Russell Senders,
"A Conservationist's Maelfesta"
in Convey to Lend in a Trackled World



... a ditch somewhere — or a creek, meadow, woodlot, or marsh ... These are places of initiation, where the borders between ourselves and other creatures break down, where the earth gets under our nails and a sense of place gets under our skin.

... Everybody has a ditch, or ought to. For only the ditches and the field, the woods, the ravines can teach us to care enough for all the land.

> Robert Michael Pyle, The Thunder Tree

Green Hearts Institute for Nature in Childhood

Bringing Children and Nature Back Together

### INTRODUCTION

# What are your favorite memories of childhood play?

If you're like millions of other Americans, most of those memories happened outdoors and included a lot of nature-based play. For instance:

- digging holes to China.
- cutching fireflies and frags;
- exploring little creeks and ponds;
- building stick forts or tree houses;
- daydreaming in your secret spot; or
- " just "mucking around" in the woods.

Do your own children play that way?

Chances are, they don't. Childhood has changed. American kids now spend 27 percent of their time with electronic media: videa games, television, computers, and recorded music.<sup>1</sup>

How much of their time do they spend outside? One percent, on overage. And that includes highly structured, adult-led activities like soccer and baseball leagues.

"Unstructured" outdoor play — that is, make-it-up-as-you-go free play — amounts to only about 30 minutes per week for each of our children." That's barely four minutes per day. Yet American two-year-olds average 2.6 hours of television viewing per day!"

That's a dramatic change from past generations when one of the most common parental commands was, "So out and play!" And for many children of the Baby Boomer generation, the only rule for that outside play was, "Be home by the time the streetlights came on."

## WHAT HAPPENED TO OUTDOOR PLAY?

No one intentionally removed "nature play" from childhood, but several key changes have happened over the past 25 to 30 years.

- We've become more urbanized. Today, children's occess to green play spaces is often more distant and/or more dangerous than it was in the past.
- Children's free time has diminished due to longer school days and many more after-school activities, such as team sports, music lessons, tutoring, church groups, etc.

### Kids' free time dropped by 38% between 1979 and 1999.5

- Parental fears have been magnified by "24/7" media coverage
  of all dangers to children, whether they are surburns, bee
  stings, coyotes, or crime. Most are exaggerated, but few
  parents can ignore the steady flow of worrisome news.
- We also fear lawsuits. It after means like there is no longer such a thing as a simple accident. If a child is hurt playing autside, then someone is to blame — and someone can be sued. Consequently, fewer sites allow active outdoor play.
- And then there's everyone's favorite villain: plugged-in play. Cable television, digital music devices, home computers, and video games have all been developed over the past 30 years. They have been a major factor in the disappearance of autdoor play.



Taken together, these changes have created a "perfect storm" against children's

author play. As a result, childhood has changed dramatically and very rapidly — and we don't even have a hypothesis about what the long-term impacts will be!

# WHY DOES IT MATTER?

For countless generations, nature play has been a defining part of childhood. Yet only recently have we begun to grasp its powerful and positive impacts an children's healthy growth and development.

 Regular habits of active play during childhood are one of the best predictors of active adulthoods\* a perfect prescription for combating the abesity epidemic.

One in five four-year-olds in the U.S. is clinically obese.

- School children who use playgrounds with trees, fields, shrubs, and vegetated edges show more creative play, better concentration, and more inter-gender play than peers with equipment-faculted playgrounds.<sup>6,9</sup>
- Outdoor play in green settings reduces the symptoms of attention-deficit hyperactivity disorder in children.
- According to the "hygiene hypothesis," early exposure to plante, animals, and soil helps children's immune systems to develop properly, making them less vulnerable to allergenic conditions like authms and peanut allergies."
- Frequent, instructured childhood play in natural settings has been found to be the most common influence on the development of life-long conservation values.<sup>18</sup>

The Writial extinction of nature play is an unprecedented mutation of human childhood.

We have unintentionally removed a life force that has been at the center of children's physical, social, emotional, creative, and intellectual development throughout the history of humankins.

Are you confident that nature play has been replaced in most children's lives by equally valuable and positive influences? At Green. Hearts, we do not think so — and we are finding that most parents instinctively agree.

# THREE KEYS FOR GREAT NATURE PLAY

The first step in restoring nature play is to understand it. Green Hearts promotes three vital attributes for the best nature play.

## 2. The right kind of place

Good nature play requires land that is not too protected and is wild — at least in children's eyes. This might be the "back forty" of their farm, a quiet corner in a local park, a small neighborhood creek or month, a vocant city lot, or just their own backyard.



However large or small, the site must have elemental nature to play with and discovers things like rocks, dirt, trees; bugs, flowers, must, and water. Equally important, kids must be free to dig, collect, alimb, build, and hide there. This has been called "rough ground" — patches of land that adults don't much care about, but that kids can love and adopt as their own.

21's not the size, it's the freedam!

## 2. The right hand of play

Dutdoor, "child-centered" play is the gooli play that children themselves initiate, guide, change, or abandon. The very best nature play comes from the child, not from the adult!

Ideally, there are no formal objectives and few rules for nature play. It is vital, though, that the play actively engages kids with nature and its elements, it's not just any play that happens outdoors. Putting your ping-pang table in the backyard is not nature play!

Reginature play is cotching timy critters, collecting leaves and rocks, hiding in tall grass, digging for buried treasure, splashing in the creek, hiding amidst the shrubs, and climbing a tree as high as you done.

It's about physics with nature, not just in natural

# 3. The right kind of re-play

In her research into the origins of personal conservation values. Lausse Chasto found, "The special places that stood out in memory, where people forward a first band with the natural world, were always part of the regular chythm of life." (Italics added). That's how many of us enjoyed nature play. He played outdoors nearly every day, again and again, in good weather or bad.

This level of frequency may be the hardest aspect of nature play to restore — since, for children, frequency requires proximity. If kids have to be harded around in the family minison in order to enjoy rature play, then it's not likely to happen of ten enough to fully impact their growth, development, and love of nature.

Instead, we need to bring nature play back into our families yards, local green spaces, and school playgrounds — places they can reach an foot or by bicycle, day after day, to play and re-play. This wife nature of the day to restarring frequent nature plays.

The right kinds of place, play, and <u>re-play</u>: put these together and they will make great nature play. But <u>your</u> child's autdoor fun doesn't have to perfectly match all three in order to be worthwhile!

- If there isn't a creek or recent lot near your house, use a corner of your backyard as your kids' own rough ground.
- If the local park won't allow digging holes or catching frags, you can still let your children decide where to explore in the park and what to do next.
- If your kids con't get outside to play every day, then once or twice a week will still be great?

Consider what makes great enture play, but don't warry about perfection. Open the door and get your kids started!



# HOW CAN PARENTS RESTORE NATURE PLAY?

If you want to give your children the gifts of good health and a life-larg lave of the outdoors, then bring frequent, unstructured, nature-based play into their lives. It will be the crucial first step in "grawing up green". The following pages provide a few simple ideas and resources for getting started.

# SHOW YOUR \$225 THE DOOR!

As a parent, you are the key to your children's nature play; you are the "gatekeeper," It is important that you regularly encourage their outdoor play and "nudge" them outside, away from the common electronic devices that memorize so many children.

If they are not used to playing outside, you may quickly hear complaints like, "I'm bored," and, "There's nothing to do out here." Don't give in Children have an increasible talent for making up play, but it may take them awhile to get going. You can set an example be the first one to splesh is.



the must puddle, rail down the hill, or climb into the tree. They'll soon get the idea — and then you can withdraw and let your kids play!

As they play outside more often, challenge your kids to explore your own yord and final things they've never noticed before, or things that have changed since lest week. When they do, show genuine interest in their discoveries. And don't first if their play causes minor damage to your plants, it's a small price to pay for good play!

The world is must-inscious and puddle-woulderful.
-- se surisings

# "Ktoseave" Your YARD

There is no better place to begin restoring frequent nature play than in your own yord, even if it's a small one. It is handy, familiar, needs no auto transport, and is relatively easy for you to supervise.

Home yards can provide especially good nature play for young children, about ages two to eight. Their interests will tend to focus on tiny, concrete discoveries rather than the "big picture."

So while you may exclaim over a glorious sunset, your young children will mure likely be apprivated by "rallie-pollie" bugs. a sweet smalling flower, or a mysterious hale in the flower bed.

Your yard can provide countless fascinations on that scale, especially if you are willing to make a few changes. Most American yards are nativer sterile, dominated by turf grass, a few shrubs and flowers, and a tree or two. But you can enhance your yards nature play value by increasing its natural "richness." Note, though: it's best if you're OK with a yard that looks a bit more "messy" than the management, chemical-saturated model that's so common in the U.S.

Here's a sampling of not-too-hard and not-too-expensive ideas for this sort of "kidscoping."

Rough Grounilt. Set aside part of your backyard for your kids
to dig, build, hide, plant, or do whatever they want.
You might even write up a simple lease that
gives your children "awnership" of the
chosen spot, and then have a "signing
ceremony" with them!

Eligaing Piti. Create a 10-foot-square digging area by removing grass and loosening the soil with a garden fark or shovel. If you have heavy clay soil, you may want to lighten it by mixing in a few bags of sand. Provide small shovels, spades, and buckets, and let your kids "dig in!" Note: Digging pits turn into giant mud puddles after a rain. Your kids wan't mind a bit, but have boots handy...

birt Plie: Large mounds of loose dirt are on endless joy for kids sort of like a diaging pit in reverse. The larger, the better! Winter: Kids love water play! Provide water from a hose, a faucet, a sprinkler, a rain barrel, or even spray bottles. And supply ways to move the water around, since that's half the fun: buckets, milk jugs, watering cans, hollow bomboo poles, plastic pipes, etc.

Stating: Kids cherish quiet time outside, too, so create one or more sheltered spots in your yard where they can just sit, daydream, and plan their fun. Equip them with a small Adirondack chair, a tall swing, a hammock chair, a comfy bench, or a real hammock.

Strubberies: Plant shrubs in loase groups to create little nooks that will be hid-sized hide-aways. Weeping varieties can form their own "secret" spaces, and a hidden or awkey can be created by planting arching shrubs in front of a solid fence.

Plants, Mants, and More Pients! Try to
grow plants in every available spot in your yard! For the best
nature play, use a mix of ferns, tall grasses, perennial flowers,
trees, and still more shrubs. Native, wildlife-attracting species
are the best choice. Limit your amount of turf grass!

Play Lag. A large log can be a fort, a balance beam, a bench, a play table, or a hiding space for your children. If you don't have one lying around, ask a local tree service for one they have cut down. Stake it down ar partially bury it, so it can't unexpectedly roll.

Trais to Climb: Have kids ever grown up
without climbing trees? If you have a strong,
spreading tree, you can help by hanging a rope
ladder from the lowest limb or by balting
wooden climbing cleats on the trunk. Deep
mulch underneath will help cushion any slips.

Raciss & Boulders: Large, smooth boulders
(beach ball size or bigger) can be great for
climbing and pretend play — either alone or in a jumbled "boulder
mountain." If you don't have large rocks in your yard, you can buy
them and have them delivered.



Vagic Garden: All children should have the chance to tend a little vegetable garden. Sugar snap peas, radishes, corn, carrots, potatoes, and cherry tomatoes are all good choices, and are easy to grow. Help them thrive by enriching the soil with compost.

barries In addition to the veggies, plant a few berry bushes blackberries and raspbarries are classics. There's something very lad-appealing about eating ripe berries right off the bush!

Construction Zame: Rustic, kid-built forts, playhouses, and other "dens" and shelters have long been a part of nature play. Provide an ample supply of "loose parts" to build with: branches, sticks, boards, milk crates, small tarps, large sheets of cardboard, etc.

Swallow, wren, or bluebind boxes are good choices to mount in your yard. You can also purchase artificial houses for toads, bats, butterflies, and bees; all will add child interest to your yard!



Square, in a quiet corner of your yard. Leave it for a few days, and then periodically look to see what's moved into the micro-habitat beneath it. Likely residents will be pill bugs, ants, slugs, millipedes, and other mini-beasts that kids love. (Note: It's best to skip this idea if venomous snakes are common in your area.)



Leaf Piles: Rake faller leaves into giant piles and let the kids have at 'em! Better yet, let your young kids do the raking — they will actually enjoy it! After the leaves lose their appeal, put them in your shrub and flower beds to decompose and enrich the soil.

Progrance Plant fragrant herbs in places where your kids play. Try groundcaver thyme (many types and scents), lawn chamomile, and Corsican mint on walking paths, and mints or scented geraniums in beds. They'll smell wonderful when picked or walked on!

Butterfly Genden: Clear 50 to 100 square feet of ground for a butterfly haven, and plant it with flowers like yarrow, rudbeckia, milkweeds, coneflowers, Jae Pye weed, and verbena. Throw in a little parsley and dill for the caterpillars to eat.

Milloweed & Monarchus If you have milkweed, you'll get Monarch caterpillars — that's all they eat!

Cut a branch with a Monarch caterpillar on it (easy to identify with a field guide or the internet) and put it in a screened box.

Supply fresh milkweed leaves until the caterpillar forms a beautiful, hanging chrysalis — likely in less than a week.

Nine to 14 days later an adult butterfly will emerge from the now-transparent chrysalis. Be sure there is room for its wings to fully open so they will not be deformed, and release the adult within a few hours. This is a trady magical process that every child and adult should see!

Fire Pit. A backyard fire pit is the perfect place for kids to learn to tend and respect fire, under their parent's watchful eyes. Add in a few s'mores, maybe hot dogs on a stick, and a ghast story or two and prestor a great backyard activity for your whole family!



Flunt Houses: Grow sunflowers in a hollow square, about five ar EX feet on each side and with a small "door" opening. Alternate seeds for tall and short sunflowers (there are many varieties), so they will grow into solid "walls" and a very unique playhouse!



You can also use long garden stakes or bambac poles to make a teapee frame about six feet high. Plant climbing beans, squash vines, or morning glory vines to grow up and around the poles. By late summer you'll have a green teapee for your kids' play!

# PLAY AS A FAMILY

Free choice, kids-only outdoor explorations are the "best and highest" form of nature play, but family activities can also add to the fun! There are many backs available with great ideas for these family surface activities, but here are a few to try in your own yard.

Sockyard Compeuts: All you need is a basic text, sleeping bays or blankets, a few snacks, a fleshlight, and a nice evening. This can be a real adventure for young children — yet bathrooms, more food, and a rain refuge are just steps away!

Planic Under the Store: If your kids don't want to sleep out have a backgrad pionic ofter dark, instead. Even better, plan a midnight pionic during the Perpeid meteor shower in mid-August. (Chack with your library or the internet for each year's exact dates.)

Plant Things! Planting trees, shrubs, and flowers with your children is a great way to help them bond with their own yord. They will have a special feeling for every plant they help start!

Minth Barting: On a hot summer eve, hong a white bed shant on your deck or in your yard, and shine a bright light on it for at least 30 minutes (ultraviolet is best, but regular bulbs will work). You'll be amazed at the moths and other right-flying insects that show up!

You can also entice moths with "bait" made from old beer, ratting banance, and sugar or molesses. Let this "brew" in a dark, worm place until it sticks. Then point it on tree trunks, and return after dark with a lantern and a field guide.

Walk in the Crask! If your yard or neighborhood has a shallow stream, try walking in it. You'll likely find frags, water striders, and other insects. Look under creek racks, too, far weird-looking dragontly lorvae. (He sure to put the racks back in the same spats.)
Wear old tennis shoes or boots for this excursion.

Hoy in the Roin! No nearby creek? Then play in the rain on a warm stay. Stomp in the mod, slide down a slippery gross slope, cotch warms; or just lie down and let the rain fall on your face.

"Wall the Acres." Take a short dely walk around the pard with your children, searching for anything new or interesting. This is especially rewarding during the springtime and early automat, when nearly every day can bring a new plant, insect, or bird!

Build a flirsthouse: A simple birdhouse is easy to build with basic tools. Get instructions from the library, a nature center, or the internet, and be sure to follow the guidelines for where to mount it and how high it should be. Feathered tenants will soon arrive!

Fixed the Birds: Put out a bird feeder or two. Use hanging tube feeders filled with black all sunflower seed or right seed, and buy the right feeder for each type! Hong them near a window, have a bird guide handy, and keep a journal of the birds you see.

Try a humminghird feeder, too!

Schweiger Hent: Search your yard for natural objects, colors, or shapes. Take forms with your kids to make up the search lists.

Look II Up: Once your kide begin loving the outdoors, they'll want to know what they've found — so keep a few field guides in the house. Balden Guides and Peterson First Guides are good for beginners: the larger Peterson Guides series gives more detail.

Show and Tell: Encourage your kids to show you what they find outside, and give them a little dedicated space where they are display their treasures (well, at least the non-living ones...).

Today's young children are controlled by the expectations, wheeloles, whims, and rules of adults. Play is the only time they can take control of their world.

— Shalo & Florese

#### KEEP NATURE PLAY TOOLS AND TOYS HANDY

Nature itself provides curious children with on endless variety of toys, but there are also human-made devices that can enhance their nature-based play. Here are a few good ones.

Earth Movers: These are a must, since kids just love to dig in mud, sand, and pea gravel!

Supply shavels, spades, rakes, hoes buckets, plastic barrels, etc.—and get children's sizes. Keep a child's wheelbarrow handy, tool

Directions: Buy a basic pair (\$50 or less) for your kids (they're sure to get barged up). A 7 × 35 size is good for most children. Facus adjustments are tricky for preschoolers, though, so let them use a play pair made out of two empty toilet paper tubes.

Magnifiers: Look for large ones — at least 3 inches in diameter.

Another good option is a magnifier stool: a large magnifier with three wooden legs. Check the internet for these.

Bug Copes: Kids love to capture insects such as fireflies, praying mantises, and butterflies, so keep a small bug tage on hand. Make one using screening and a box, or use a jor with our holes in the lid. Encourage the early and safe release of all captives!



Nata Speaking of catching bugs, you'll want a net! Inexpensive butterfly nets ("air nets") are said in toy and habby stores; look for long handles and long netting. Sturdier equatic ("dip") nets are also handy to have if there's a creek or pond nearby. Check science supply stores for these.

Comeras: Sive your children inexpensive digital cameras to "hunt" with! Another fun option is to mount a motion-activated "scout camera" in your yard (get a digital one with a flash, at outdoors stores). These can reveal what's visiting your yard at night!

### KEEP IT SAFE!

Nature play is no more dangerous than many other things that kids often do — like running down stairs, playing football, riding in a car, or jumping on a trampoline! And while outdoor play does have risks, it also brings real developmental benefits (see pg. 3).

Vou should always consider safety, of course, but don't obsess over tiny dangers. The most common cause of children's accidental death is auto accidental, but you still drive your kids places, don't you? Do not let equally manageable dangers keep your kids away from nature play. Ultimately, your children must learn to judge risks, gauge their limits, and practice responsibility. Isn't it better for them to learn these skills by climbing backyard trees at age eight, then to wait until they are 16 and behind the wheel of a car?

Here are a few tips to keep your children's nature play safe.

Insects: Have your kids use insect repellent and wear long sleeves, long pants, and shoes: tuck the pant legs into speks to keep out ticks. Teach them to be especially alert for yellowyacket hornets, which aggressively defend their underground nests: Have your kids watch for "bees" coming and going from a spot on the ground, and then avoid that area!

West hills Virus: This virus is spread by masquitoes, but less than one percent of people who are infected ever become severely ill. Use the insect repellent practices above, and lessen masquito breeding by avoiding any stagnant or standing water in your yard.

Bird Fiu: The dangerous strain of bird flu has not been found in North America — neither in people har in birds that can carry it.

Poisson Ivy Paison Oak, and Paison Sumac: Help your kids learn to recognize these. If exposed, wash the area with water and strong soap, but don't scrub too hard. Over-the-counter lations usually help, but if blisters form, call your doctor.

Stinging Nerric This common plant causes a burning itch, but it only lasts a few minutes. Teach your children to recognize it.

Other Poissonus Plants: There are many species of poissonus plants in the U.S., though most cause only skin irritation or stamoch distress. Nevertheless, teach your kids not to set any plant part you haven't approved, and learn the poissonous plants in your area. Search at www.hort.purdue.edu/ext/poissonousplants.html.

Water: Get your children swimming lessons at a young age, and feach respect and coution for all water bodies.

Wearhar T

Whather: In very hat weather kids should avoid outdoor play in midday, wear light and loose clothing, and drink lots of water. In cold weather they should dress warmly with a good hat and be sure to promptly shange out of any clothes that are sacked through.

Summereum: A little sunshine is good for humans: too much is bad. Routinely put sunscreen on your children, and have thum wear comply hats with brims.

Stalling: Venomous snakebites are rune, and runely fatal. However, if venomous snakes live in your area, teach your kids to recognize them. They almost never bite humans unless disturbed.

Other Wildlife: The danger from other wild animals is very small, but teach your kids to respect wildlife and to stay away from any animals that act strange or sleepy, seem too friendly, or look ill.

Stranger Danger: All kids should be taught to be cautious with any unknown person, and how to react if attacked. However, crimes against children are no more common than a generation ago, and excessive fear is uncalled for unless there have been crimes against kids in your neighborhood. Playing outside with friends, either at ar very near to home, will remove most of the danger.

incress. Germs trovel from person to person. The things your child will probably handle while playing outside are less likely to transmit germs than a doorknob at school or a tay at a stare! Do teach your children, though, to never touch mushrooms or litter, to avoid handling turtles, and to wash their hands well if they have had contact with water that might be polluted.

### SPREAD THE WORD!

Societal understanding of the importance of nature-based play is growing, but many parents are still unaware. You can help them understand by bringing the message to PTA meetings, book clube, local school boards, park districts, and other community groups that share a concern for children.



The best place to learn more about nature play and the many related initiatives is on The Children and Nature Network's website, www.childrenandnature.org. There you'll find research data to support your conversations, inspiring stories, and ideas to bring to your own area, like Family Nature Clubs. More good

information is an Green Hearts' website: www.greenheartsinc.org, and at the MORE Nature site: www.moregature.infa,

Restoring nature play for your own children, in your own yard, is the perfect first step. Then, after you see how well that works, consider extending your commitment to a "larger stage." Could your elementary school create a nature play area on its playground and have it open to the whole community on evenings and weekends? Have nearby parks opened areas for active nature play, with relaxed rules? Does your neighborhood have a piece of rough ground that could be enhanced for nature play?

Any place where children regularly play is a potential site for the restaration of nature play — but that potential will only be realized through the efforts of caring parents like you!

### ABOUT GREEN HEARTS

Green Hearts is a nerprofit conservation argunization dedicated to restoring and strengthening the bonds between children and nature. We teach, train, and speak nationwide about the importance of nature play and how it can be restored. Green Hearts is also developing our first play-focused "children's nature center," near our headquenters in Oracha, Nebrasko.

# A FEW HELPFUL RESOURCES

#### History

East Ooklas the Woods: Soung Oly Children from Nature-Deficit Disorder, by Richard Law, 2005

The Thursler Tree by Subert Michael Pyle, 1993

Reclaiming Childhood: Letting Children be Children in Our Achievement-Greatest Storety, by William Cross, 2004

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History Rocket: www.netupurocks.org

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#### Liteas or Suggestions?

If you have comments of suggestions count this forests' divide, Green Hearts would love to been their if Foots and/out at all bliminifiground portrains only

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