

Using **Project Learning Tree** and **Project WILD**  
at sites described in the

# ***New Jersey Wildlife Viewing Guide***

The ***New Jersey Wildlife Viewing Guide*** describes 87 of the most interesting places in New Jersey from a wildlife habitat standpoint. Many of these sites offer exciting, educationally-stimulating programs that focus on local wildlife, natural and cultural history at a reasonable price. At sites without an interpretive program you can create your own natural history program by using activities from **Project Learning Tree** and **Project WILD**. This document gives some suggestions for activities you can use at the various sites. Be sure to call the phone number listed in the ***Viewing Guide*** for each site to verify bus parking and other particulars, and to avoid scheduling conflicts.

**Project Learning Tree** correlations begin on page 2; **Project WILD** on page 8. The key of site numbers begins on page 11.



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## Project Learning Tree Correlation for the Sites in the New Jersey Wildlife Viewing Guide

Project Learning Tree Activity	Objectives - SWDTAT	Site Number or Applicable to All
1. The Shape of Things	Identify common shapes appearing in nature.	1,2,5,6,8,9,13,21,34,37,41,44,45,47,54,56,58,59,62,64,68,71
2. Get in Touch With Trees	Become aware of how the bark of trees varies in texture. Describe textures found in leaves and tree parts.	1,2,3,4,5,8,9,10,13,14,15,17,21,22,25,27,35,36,37,40,41,44,45,55,56,57,58,59,62,64,65,68,71,72,76
3. The Peppermint Bottle	Describe various ways animals use their sense of smell.	52 (trail for visually impaired)
7. Habitat Pen Pals	Explain the relationship between climate, conditions and habitat. Identify relationships between organisms within habitats. Distinguish between kinds of animals that can and can't live in a habitat.	1,2,5,6,8,9,13,21,34,37,41,44,45,47,54,56,58,59,62,64,68,71
8. The Forest of ST Shrew	Identify microhabitats in the forest by drawing pictures and writing a story	1,2,3,4,5,8,9,10,13,14,15,17,21,22,25,27,35,36,37,40,41,44,45,55,56,57,58,59,62,64,65,68,71,72,76
9. Planet of Plenty	Investigate the diversity of plants and animals. Explain the value of diversity of life forms in an ecosystem.	1,2,5,6,8,9,13,21,34,37,41,44,45,47,54,56,58,59,62,64,68,71
11. Can it Be Real?	Study the characteristics of unusual plants and animals. Describe how plants and animals are adapted to particular environmental conditions.	8,10,13,20,34,69,80

<u>Project Learning Tree Activity</u>	<u>Objectives - SWDTAT</u>	<u>Site Number or Applicable to All</u>
12. Tree Treasurers	Identify and categorize products from trees. Find out which products are recyclable or reusable. Recommend actions for conserving forest resources.	1,2,3,4,5,8,9,10,13,14, 15,17,21,22,25,27,35,36,37,40, 41,44,45,55,56,57,58,59,62,64, 65,68,71,72,76
13. We All Need Trees	Examine various products and determine which ones are made from trees. Describe ways trees are used to make and how these products can be conserved. Explore methods for recycling and reusing products.	Same as immediately above
16. Pass the Plants Please	Identify edible plant parts and give examples of each. Describe how plants are used to make various kinds of foods. Discuss the importance of plants in people's diets.	1,2,5,6,8,9,13,21,34,37, 41,44,45,47,54,56,58,59, 62,64,68,71
20. Environmental Exchange Box	Describe the products and characteristics of a region. Discuss the similarities and the differences between regions with respect to these characteristics.	All
21. Adopt a Tree	Describe a self selected "tree" which they have chosen for adoption. Identify relationships between their tree and organisms in the environment.	1,2,3,4,5,8,9,10,13,14, 15,17,21,22,25,27,35,36,37,40, 41,44,45,55,56,57,58,59,62,64, 65,68,71,72,76
22. Trees as Habitats	Take an inventory of plants/animals that live on, in and near a tree. Identify the interdependence of these plants and animals.	Same as immediately above.
23. The Fallen Log	Identify some of the organisms that live on, in and under fallen logs. Explain how those organisms depend on the dead wood for survival.	Same as immediately above.

Project Learning Tree Activity	Objectives - SWDTAT	Site Number or Applicable to All
24. Nature's Recycles	Understand and describe the process of decomposition. Explain the functions of scavengers and decomposers.	1,2,3,4,5,8,9,10,13,14, 15,17,21,22,25,27,35,36,37,40, 41,44,45,55,56,57,58,59,62,64, 65,68,71,72,76
27. Every Tree for Itself	Simulate how trees compete for survival. Describe how varying amounts of light, water and nutrients affect a tree's growth.	1,2,3,4,5,8,9,10,13,14, 15,17,21,22,25,27,35,36,37,40, 41,44,45,55,56,57,58,59,62,64, 65,68,71,72,76
29. Rain Reasons	Explain how variations in water, light and temperature affect plant growth. Describe how precipitation and geography affect plant and animal species in a particular region.	All
30. Three Cheers for Trees	Describe ways in which trees benefit people.	1,2,3,4,5,8,9,10,13,14,15,17,21,22,25,27,35,36,37,40, 41,44,45,55,56,57,58,59,62,64,65,68,71,72,76
31. Plant a Tree	Identify ways that urban trees enrich our lives. Determine how people care for urban trees. Identify areas which would benefit from tree planting activities. Conduct an urban tree planting project.	11,27,28,29,30, 31,32,33,47,60
32. A Forest of Many Uses	Identify ways people use forest resources. Explain that forests are managed in order to provide for human needs. Explain how different uses can be accommodated in one forest.	1,2,3,4,5,8,9,10,13,14, 15,17,21,22,25,27,35,36,37,40, 41,44,45,55,56,57,58,59,62,64, 65,68,71,72,76,
33. Forest Consequences	Evaluate the options for managing forest land.  Make a land use decision and explore the consequences of this decision.	1,2,3,4,5,8,9,10,13,14, 15,17,21,22,25,27,35,36,37,40, 41,44,45,55,56,57,58,59,62,64, 65,68,71,72,76
34. Who Works in the Forest?	Explore forest related careers.	Same as immediately above.

Project Learning Tree Activity	Objectives - SWDTAT	Site Number or Applicable to All
35. Loving it Too Much	Explain how park visitors, their actions inside and outside the park boundaries can affect the ecosystem of the park.	1,2,5,6,8,9,13,21,34,37,41,44,45,47,54,56,58,59,62,64,68,71
36. Pollution Search	Identify forms of pollution and the effects of pollution. Identify the relationship between human actions and various types of pollution.	11,27,28,29,30, 31,32,33,47,60
37. Talking Trash, Not!	Analyze the solid waste they generate over a period of time. Describe what happens to various types of waste. Design and implement a plan to reduce maintaining water quality.	30
48. Field, Forest and Stream	Identify and measure components in three different ecosystems. Describe similarities and differences among these ecosystems. Identify ways the abiotic components affect the biotic components.	All
54. I'd Like to Visit a Place Where.....	Describe the characteristics of their favorite recreational area. Explain the importance of recreational areas to people and other things.	All
56. We Can Work it Out	Develop solutions to land use problems in urban settings.	11,27,28,29,30, 31,32,33,47,60
61. The Closer You Look	Describe the overall structure of a tree and its principal parts.	1,2,3,4,5,8,9,10,13,14,15,17,21,22,25,27,35,36,37,40,41,44,45,55,56,57,58,59,62,64,
64. Looking at Leaves	Describe how leaf shape, size and other characteristics vary from tree to tree. Explain how particular types of trees can be identified by their leaves.	1,2,3,4,5,8,9,10,13,14,15,17,21,22,25,27,35,36,37,40,41,44,45,55,56,57,58,59,62,64,65,68,71,72,76

<u>Project Learning Tree Activity</u>	<u>Objectives - SWDTAT</u>	<u>Site Number or Applicable to All</u>
65. Bursting Buds	Explain the purpose of a tree's buds and their relationship to leaves.	Same as immediately above.
66. Germinating Giants	Measure physical characteristics of at least three different trees. Compare measurements and conclusions about these trees.	Same as immediately above.
67. How Big is Your Tree?	Measure and compare tree parts.	Same as immediately above.
68. Name That Tree	Identify several trees using various structural characteristics.	Same as immediately above.
69. Forest for the Trees	Participate in a simulation designed to teach how forest resources are managed. Simulate managing a piece of land for various products.	Same as immediately above.
71. Watch on Wetlands	Study a wetland ecosystem and analyze the issues and opinions relating to the management and protection of wetlands.	43,46,47,48,49,50,51,73,74,75, 76,77,78,79,81,82,83,84,85,86,87
76. Tree Cookies	Identify heartwood, sapwood and a tree's annual rings. Infer from a tree's rings what damage or stress might have occurred in its life. Make a time line of human history that coincides with a tree's rings.	1,2,3,4,5,8,9,10,13,14, 15,17,21,22,25,27,35,36,37,40, 41,44,45,55,56,57,58,59,62,64, 65,68,71,72,76
77. Trees in Trouble	Cite factors that can cause trees to become unhealthy. Describe symptoms of unhealthy trees. Compare environmental conditions that affect both human health and plant health. Identify people or agencies that care for trees and forests.	Same as immediately above.
78. Signs of Fall	Describe some of the differences between deciduous and evergreen trees. Identify patterns in the changing seasons. Understand why leaves of deciduous trees change color in the fall.	1,2,3,4,5,8,9,10,13,14, 15,17,21,22,25,27,35,36,37,40, 41,44,45,55,56,57,58,59,62,64, 65,68,71,72,76

Project Learning Tree Activity	Objectives - SWDTAT	Site Number or Applicable to Any
79. Tree Life cycle	Diagram the life cycle of a tree. Compare a tree life cycle to a human life-cycle. Explain the role each stage of a tree's life plays in the forest ecosystem.	Same as immediately above.
80. Nothing Succeeds Like Succession	Explain how relationships between species diversity and ecosystem stability. Identify successional stages in ecosystems based on plant and animal species. Draw conclusions about the process of succession based on study test plots in different stages of succession.	All
83. Reduce, Reuse and Recycle	Learn about ways to reduce solid waste in the community by reducing consumption, reusing products, recycling materials and composting, and communicate to others the importance of recycling in their community.	30
87. Earth Manners	Express appropriate ways to treat living things and to act in forests, parks and other natural areas.	All
88. Life on the Edge	Identify environmental factors that can cause species to become endangered. Research the current status of several endangered plants or animals. Present persuasive arguments for the protection of a particular plant or animal species.	1,2,5,6,8,9,10,13,21,34,37,41,44,45,47,54,56,58,59,62,63,64,68,69,71

## Project WILD Correlation for the Sites in the New Jersey Wildlife Viewing Guide

Project WILD Activity	Objectives - SWDTAT	Site Number or Applicable to Any
1. Wildlife is Everywhere	State that humans and wildlife share environments. Generalize that wildlife is present everywhere.	All
2. Microtrek Treasure Hunt	State that humans and wildlife share environments. Demonstrate that humans do not have exclusive use of environments. Generalize that wildlife can be all around us even we do not actually see it.	All
3. My Kingdom for a Shelter	Identify and describe the materials and techniques used by at least one wild animal to construct its shelter.	All
4. Litter We Know	Identify and evaluate ways that litter pollution can endanger wildlife. Propose ways they can help eliminate dangers.	All
5. Tracks!	Students will be able to identify common animal tracks.	All
6. Habitrekking	Summarize evidence about the nature of habitats. Generalize from evidence that people and wildlife have similar basic needs, share environments and are subject to the same or similar environmental problems,	All
7. Learning to Look...	Describe differences seen in an environment as the result of casual and detailed observation. Give reasons for the importance of looking closely at any environment.	All
8. WILD Words, Journal...	Observe and describe their surroundings particularly in an outdoor setting.	All
9. Animal Poetry	Recognize and experience the inspirational value of wildlife.	All
10. Seed Need	Explain how seeds are carried by animals. Evaluate the importance of wildlife as contributors to ecological systems based on seed dispersal.	4,5,7, 19, 20, 21, 26, 38, 41, 45, 54, 55, 56, 57, 59, 72



Project WILD Activity	Objectives - SWDTAT	Site Number or Applicable to All
11. Environmental Barometer	Observe and count wildlife in an area. Discuss why the wildlife is or is not present. Consider ways in which the presence of wildlife can be an indicator of environmental quality.	All
12. Drawing on Nature	Generalize that wildlife is an important inspiration for art and science.	All
13. Photos Keep it Happening	Interpret the importance of wildlife as an inspiration for art.	All
14. Wild Edible Plants	Identify at least one native edible plant. Describe the relationship between wild pants and cultivated plants.	All
15. Graphanimal	Identify characteristic life forms in 2 different environments.	All
16. Forest in a Jar	Observe and describe succession. Summarize what they have learned about how environments can change.	2, 3, 4, 5, 7, 8, 12, 16, 18, 21, 22, 25, 26, 27, 29, 30, 39, 46, 51, 52, 54, 57, 58, 59, 63, 64, 71, 72, 75, 83, 85
17. Pond Succession	Recognize that natural environments are involved in a process of continual change. Discuss the concept of succession. Describe succession as an example of the process of change in natural environments and apply understanding o the concept by drawing a series of pictures showing stages in pond succession.	2, 3, 4, 5, 7, 8, 12, 16, 18, 21, 22, 25, 26, 27, 29, 30, 39, 46, 51, 52, 54, 57, 58, 59, 63, 64, 71, 72, 75, 83, 85
18. The Thicket Game	Define adaptation in animals and generalize that any all animals are adapted to survive.	Region I, Ii, IV, VI site and 25, 28, 29, 31, 33, 41, 44, 45, 62, 63, 64, 68, 71, 72, 73, 75, 76, 83, 85
19. Quick Frozen Critters	Discuss predator/prey relationships including adaptations. describe the importance of adaptations in predator/ prey relations.	All

Project WILD Activity	Objectives - SWDTAT	Site Number or Applicable to All
20. Oh Deer!	Identify and describe food, water and shelter as the three essential components of habitat. Describe the importance of good habitat to wildlife. Define limiting factors and give examples. Recognize that some fluctuations in wildlife populations are natural as ecological systems undergo constant change.	All
21. Smoky Bear Said What?	Identify positive and negative consequence of forest and grassland fires. Describe some of the changes fire can make in an ecosystem.	54, 55, 56, 57, 58
22. Fire Ecologies	Identify, Describe and evaluate some possible positive and negative effects on wildlife that result from forest and grassland fires.	54, 55, 56, 57, 58
23. Bird Song Survey	Identify and describe the importance of bird counting as one means of inventorying wildlife populations.	All

## **Project Learning Tree/Project WILD**

Correlation for the Sites in the

## **New Jersey Wildlife Viewing Guide**

<u>Number</u>	<u>Site Name</u>
1	Delaware Water Gap National Recreation Area
2	High Point State Park and Stokes State Forest
3	Wallkill National Wildlife Refuge
4	Whittingham Wildlife Management Area
5	Pequest Wildlife Management Area
6	Worthington State Forest
7	Merrill Creek Reservoir
8	Waywayanda State Park
9	Weis Ecology Center and Norvin Green State Park
10	Wildcat Ridge Wildlife Management Area
11	Black River Wildlife Management Area
12	Great Swamp Area
13	Ringwood State Park
14	Longpond Ironworks State Park
15	Appalachian Trail Pochuk Creek Crossing
16	Newark-Pequannock Watershed
17	Pyramid Mountain Natural Historical Area
18	Saffin's Pond
19	Fairview Farm Wildlife Preserve
20	Willowwood Arboretum and Bamboo Outdoor Education Center
21	Spruce Run and Round Valley Recreation Areas
22	South Branch Reservation and Echo Hill Environmental Education Center

<u>Number</u>	<u>Site Name</u>
23	Musconetcong River Reservation Point Mountain Section
24	Palisades Interstate Park and Alpine Boat Basin
25	Tenafly Nature Center
26	Celery Farm Conservation Area
27	Morris Canal Park and Nature Preserve
28	Trailside Nature and Science Center
29	Lenape Park
30	Hackensack Meadowlands Development Commission Environment Center
31	Liberty State Park
32	Dismal Swamp
33	Highland Avenue Woods Reserve
34	Bull's Island Recreation Area in Delaware and Raritan Canal State Park
35	South Branch Reservation - Assiscong Marsh Natural Area
36	Sourland Mountain Nature Reserve
37	Washington Crossing State Park
38	Stony Brook Millstone Watershed Association
39	Assunpink Wildlife Management Area
40	Roosevelt Woodland Trail
41	Cheesequake State Park
42	Raritan Bayshore Viewing Area
43	Gateway NRA, Sandy Hook
44	Hartshorne Woods Park
45	Huber Woods Park
46	Coastal Ponds - Lake Takanassee

<u>Number</u>	<u>Site Name</u>
47	Cattus Island County Park
48	Island Beach State Park and Barnegat Lighthouse State Park
49	Great Bay Boulevard WMA
50	Edwin B. Forsythe National Wildlife Refuge
51	Manasquan Reservoir
52	Wells Mills County Park
53	Dot and Brooks Evert Memorial Nature Trail
54	Whitesbog Village Lebanon State Forest
55	Greenwood Forest Wildlife Management Area
56	Wharton State Forest
57	Stafford Forge Wildlife Management Area
58	Lebanon State Forest
59	Atlantic County Park
60	Hamilton-Trenton Marsh Viewing Area
61	Taylor's Wildlife Preserve
62	Rancocas Nature Center
63	Greenwald Memorial Park and Pennypacker Park of Camden County Parks
64	Washington Lake Park
65	Fort Mott State Park
66	Salem River Wildlife Management Area
67	Abbots Meadow Wildlife Management Area
68	Parvin State Park
69	Stow Creek Viewing Area
70	Moore's Beach Heislerville Wildlife Management Area
71	Belleplaine State Forest

<u>Number</u>	<u>Site Name</u>
72	Tuckahoe Wildlife Management Area
73	Cape May National Wildlife Refuge
74	William D and Jane C Blair, Jr., Cape May Migratory Bird Refuge
75	Higbee Beach Wildlife Management Area
76	Cape May National Wildlife Refuge
77	Shorebird Viewing Area
78	Dennis Creek Wildlife Management Area
79	Heislerville Wildlife Management Area
80	Morie Sand Company
81	Egg Island Wildlife Management Area
82	Bayside
83	Bridgeton City Park
84	Gateway to the Maurice National Scenic and Recreational River
85	Peaslee Wildlife Management Area
86	Ocean City Viewing Areas
87	Wetlands Institute