



Camp Berry  
Ecology Handbook  
Black Swamp Area Council  
Findlay, Ohio  
2019



## NOTES

Black Swamp Area Council  
2100 Broad Ave, Findlay, OH 45840  
(419) 422-4356



Printed on Recycled Paper

August 16, 2019

# OUTDOOR CODE

**As an American, I will do my best to –**

**BE CLEAN IN MY OUTDOOR MANNERS.** I will treat the outdoors as a heritage. I will try to improve it for myself and others. I will keep my trash and garbage out of America's waters, fields, woods and roadways.

**BE CAREFUL WITH FIRE.** I will prevent wildfire. I will build my fire in a safe place and be sure it is out before I leave.

**BE CONSIDERATE IN THE OUTDOORS.** I will treat public and private property with respect. I will remember that use of the outdoors is a right that I can lose by abuse.

**BE CONSERVATION-MINDED.** I will learn how to practice good conservation of soil, waters, forest, minerals, grasslands, wildlife and energy. I will urge others to do the same.

~

**The Camp Berry Ecology Handbook Fourth Edition is dedicated in loving memory of my beloved parents, Dwight H. & Opal L. Musser**

~

## About the Author and Editor

**Author:** Larry E. Musser has nearly sixty years of affiliation with the Boy Scouts of America as a youth and as an adult. He earned many awards in scouting as well as from the Ohio Department of Natural Resources, National Wildlife Association, Keep America Beautiful Professional Award, and four awards with the National Association of County Officials (NACO). Through the BSA he earned the Eagle Scout with gold palm, Vice Chief of Eagle Creek Lodge 382 Order of the Arrow in which he is a Vigil member, and attended Philmont Scout Ranch in Cimarron, New Mexico. Additionally, Larry served on the National Staff for Exploring and served as the Coordinator at Ft. Sam Houston, U.S. Army & Alamo Area Council in San Antonio, Texas.

Professionally, Larry served as the planner for the Hancock Regional Planning Commission, created Hancock Park District, Civitan Park and in the 1970s organized cleanups of the Blanchard River. As Executive Director of Hancock County Commissioners Special Projects, Larry sponsored over 25 environmental banquets, continued Blanchard River cleanups, and implemented Litter Landing, the community recycling center.

While Larry attended Findlay College, he visited Italy and Israel with fellow students and local citizens and earned a B.S. in Sociology, Comprehensive Social Science and Urban Affairs and later from The University of Findlay a M.A. in Liberal Studies.

**Editor:** Megan Gardner has just finished her second year on Camp Berry staff as the Ecology & Conservation Director. She is a native of Minnesota within the Twin Cities metropolitan area and a senior at Grinnell College in Grinnell, Iowa, majoring in General Science with concentrations in Biology and Environmental Studies. She studied climate change and the environment in Iceland and Greenland during the fall semester of 2018. Megan attended National Camping School at Hawk Mountain Scout Reservation in Schuylkill County, Pennsylvania to become the Eco-Con Director at Camp Berry. She has an extensive knowledge of climate change, ecology, and related subjects and used her creative influence to produce the fourth edition of the Camp Berry Ecology Handbook.

## Special Thanks

Wayne Baldwin, Jr.*	Ronnie Risner*
Ron Bowerman	Mike & Judy Erven
Ann Fisher Miller	Burr & Jane Pelton & sons
Jerry Gallant	Doug Barchent*
Russ Gibson	Richard P. Barchent, Jr.*
Dr. Todd M. Gilligan	Shane Myers
Hancock County Naturalists	Betsy Worden
Elizabeth Hardesty	L. Kent Rogers
Mildred James	Oscar Gonzalez
R. S. Phillips	Shirley Barchent
Dirk Smith	Jerry L. & Cathy Ammons
Dr. Allen Wentz*	Delbert & JoAnn Henry
Sandy & Don Z. White*	Ed Ingold
J. Bruce Brimley*	Paul E. Baughman
Lee & Jan Downing*	Paula Deter
Courier Commercial Printing	Dr. Edwin Lentz
Karl L. Heminger	Jim Brown & Sally Stemen
Tom & Kelly Meyers	Jim Abrams
Kaleidoscope Farms	Brian & Joyce Beckwith
Roger Powell	Scott & Michele Foust*
Sharon Musser	Chad Carroll

Ruby Arredondo & Daniel A. Baxter  
Sangvan & Jennifer Keopraseuth & sons  
Dr. Dale & Radell Brougher & sons  
The Gathering Basket Herb Society  
Brent, Suzanne and Lucca Musser  
Hancock County Soil and Water Conservation  
ODNR Divisions of Forestry, Wildlife, and Fish  
Camp Berry Staff of 1963, 1964, and 1966  
The Ohio State University Extension Service – Hancock County  
The Cornell University Ornithology Lab  
The professional staff of Black Swamp Council

\*denotes Camp Berry staff

# Litter Prevention and Recycling

Camp Berry is one of the best locations in northwest Ohio to study ecology, the relations between organisms and the environment. Our camp has a balance of waterways, woodlands, soil types, and a variety of animal and plant species. Interesting things to study here also include soil erosion, tree farming, weeds, grasses, rocks, minerals, birds, insects, fish, reptiles, amphibians, and so much more.

As you study our environment, you have to be conscious of our part in the use and care of the Earth's life support system. Every day, Americans unconsciously contribute to environmental destruction by discarding the unwanted. Symptoms of continuing environmental problems are all around us – higher costs for energy, water shortages, roadside litter, unchecked soil erosion, toxic pollution of terrestrial and marine ecosystems, dependency on foreign nations for certain resources, growing lists of threatened and endangered species, disappearance of farmland.

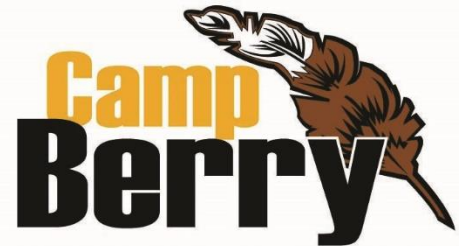
Each of us has to take an active role in keeping our environment clean. Litter containers are located at every campsite and program area throughout Camp Berry. Every person who uses our camp is encouraged to make our facility cleaner than they found it. Following the third principle of Leave No Trace (Dispose of Waste Properly), we are able to make Camp Berry more attractive, safer, and a more pleasant environment for animals and people.

Any recyclable materials can also be collected and taken to Litter Landing at 1720 E. Sandusky Street, Findlay, OH.



# Table of Contents

Dear Friends of Ecology.....	1
History of Camp Berry.....	2
Other Project and Improvements.....	3
Trees.....	4
Vines, Shrubs, Herbs, and Related Plants.....	5
Birds.....	9
Amphibians.....	13
Reptiles.....	13
Fish.....	14
Mammals.....	15
Rocks, Minerals, and Soil.....	16
Butterflies and Skippers.....	20
Insects.....	22
Litter Prevention and Recycling.....	23
Special Thanks.....	24
Outdoor Code.....	25



# Dear Friends of Ecology,

During the mid-1950s, I acted upon the encouragement of my parents and older siblings and began trail-blazing a lifelong interest in Boy Scouts. Family hikes were often accented with on-the-spot biology lessons that were filled with fun and interesting facts concerning the plant and animal kingdoms found in our region. An appreciation for nature and Scouting began to grow in me, building my self-confidence and preparing me to earn my Eagle Scout. It was truly a highlight of my young life to serve on Camp Berry's staff as Director of Nature and Conservation during the mid-1960s. This training provided me the opportunity to draw from the expertise of those around me in compiling a list of the many different plants and animals of Camp Berry.

Scouting and Camp Berry have remained throughout the years an important part of my life. During the '70s, my wife, Sharon, and I were married in Marcus Chapel. In the early 1990s, we watched with great pride as our son, Brent, earned his Eagle Scout. Each time I visit Camp Berry, I am once again reminded that my life from childhood to senior citizenship is intrinsically linked to the very acres of land that comprise the Boy Scout camp, which is one of the best places to study and observe ecology in Northwest Central Ohio.

It is with deep affection for Camp Berry and Boy Scouts that I present the fourth edition of the Ecology Handbook of Camp Berry. This is used by fellow scouts as well as anyone interested in learning more about the environment and ecology at Camp Berry.

I would like to extend my appreciation to all my friends, colleagues, and fellow scouts who contributed their time and energy in producing the pertinent information found within this handbook. Also, a most sincere note of appreciation to Richard P. Barchent, Jr., a fellow Camp Berry staff member in the '60s and a lifelong buddy who passed away this past winter. Dick joined me in a multitude of nature hikes and helped identify over 183 species of birds for my second edition of this Camp Berry Ecology Handbook.

As we blaze the trail into the 21<sup>st</sup> century, let us be ever mindful of the need to work together to achieve the common goal of preserving our natural resources, improving our quality of life, and making our community a better place to live and work.

Sincerely,

Larry E. Musser

# Insects

- |                               |                         |
|-------------------------------|-------------------------|
| 1. Ant, Carpenter             | 35. Fly, Flesh          |
| 2. Any, Little Black          | 36. Fly, Greenbottle    |
| 3. Baskettail, Common         | 37. Fly, House          |
| 4. Bee, Bumble                | 38. Fly, Robber         |
| 5. Bee, Honey                 | 39. Giant Water Bug     |
| 6. Bee, Mason                 | 40. Glow Worm           |
| 7. Beetle, Carrion            | 41. Grasshopper, Flying |
| 8. Beetle, Darling            | 42. Grasshopper, Meadow |
| 9. Beetle, Green June         | 43. Grasshopper, Pygmy  |
| 10. Beetle, Horn              | 44. Hornet              |
| 11. Beetle, Ladybird          | 45. Hoverfly            |
| 12. Beetle, Leaf              | 46. Katydid             |
| 13. Beetle, Lightning         | 47. Leafhopper          |
| 14. Beetle, Long-horned       | 48. Locust              |
| 15. Beetle, May               | 49. Mantis              |
| 16. Beetle, Snout             | 50. Mayfly              |
| 17. Beetle, Stag              | 51. Milkweed Bug        |
| 18. Beetle, Tiger             | 52. Mosquito            |
| 19. Beetle, Water             | 53. Planthopper         |
| 20. Bug, Assassin             | 54. Spreadwing, Great   |
| 21. Bug, Leaf-footed          | 55. Stink Bug           |
| 22. Bug, Toad                 | 56. Termite             |
| 23. Cicada, Annual            | 57. Tick                |
| 24. Cockroach, American       | 58. Treehopper          |
| 25. Cricket, Bush and Tree    | 59. Wasp, Ichneumon     |
| 26. Cricket, Field            | 60. Wasp, Mud           |
| 27. Cricket, Ground           | 61. Wasp, Paper         |
| 28. Cricket, Mole             |                         |
| 29. Damselfly, Broad Wing     |                         |
| 30. Darner, Green             |                         |
| 31. Dragonfly, Hine's Emerald |                         |
| 32. Firefly                   |                         |
| 33. Fly, Black Horse          |                         |
| 34. Fly, Crane                |                         |



FAMILY	LYCAENIDAE <ol style="list-style-type: none"> <li>1. <i>Lycaena phlaeas americana</i></li> <li>2. <i>Hyllolycaena Hyllus</i></li> <li>3. <i>Satyrium calanus falacer</i></li> <li>4. <i>Strymon melinus humuli</i></li> <li>5. <i>Everes comyntas</i></li> <li>6. <i>Celastrina ladon</i></li> </ol>
FAMILY	LIBYTHEIDAE <ol style="list-style-type: none"> <li>1. <i>Libytheidae bachmanii</i></li> </ol>
FAMILY	NYMPHALIDAE <ol style="list-style-type: none"> <li>1. <i>Speyeria cybele</i></li> <li>2. <i>Clossiana bellona</i></li> <li>3. <i>Phyciodes tharos</i></li> <li>4. <i>Polygonia interrogantionis</i></li> <li>5. <i>Polygonia comma</i></li> <li>6. <i>Polygonia progne</i></li> <li>7. <i>Nymphalis antiopa</i></li> <li>8. <i>Aglais milberti</i></li> <li>9. <i>Vanessa virginiensis</i></li> <li>10. <i>Vanessa cardui</i></li> <li>11. <i>Vanessa atalanta</i></li> <li>12. <i>Junonia coenia</i></li> <li>13. <i>Basilarchia arthemis Astyanax</i></li> <li>14. <i>Basilarchia archippus</i></li> </ol>
FAMILY	APATURIDAE <ol style="list-style-type: none"> <li>1. <i>Asterocampa celtis</i></li> <li>2. <i>Asterocampa clyton</i></li> </ol>
FAMILY	SATYRIDAE <ol style="list-style-type: none"> <li>1. <i>Enodia anthedon</i></li> <li>2. <i>Megisto cymela</i></li> <li>3. <i>Cercyonis pegala</i></li> </ol>
FAMILY	DANAIDAE <ol style="list-style-type: none"> <li>1. <i>Danaus plexippus</i></li> </ol>

## History of Camp Berry

In 1925, ten acres of the present camp were leased for \$60 per year in order for the Boy Scouts of Hancock, Putnam, and Seneca County areas would have a place to go to camp.

In 1928, R.J. Berry (Ohio Oil Company Vice President) and his wife purchased the original 83-acresite and donated it to the Put-Han-Sen Boy Scout Council. The Berry Scout Reservation, as it was known at the time, was incorporated that same year.

In the early 1930s a mess hall was constructed at the camp. This mess hall has since evolved into the ranger's home. In 1934, 10,000 trees were planted in the southwest corner of the camp and a dam was built north of Lake of the Pines.

The swimming pool was built around 1937, and the same year 100 boys and 17 leaders attended summer camp.

The five-year program which the Council launched in 1946 was primarily concerned with the development of the camp. Donnell Lodge was constructed that same year. The camp was expanded further with the construction of new cabins and the planting of 10,000 seedling trees. The equipment building, now the Trading Post, and the Training Center were also donated by Mr. John Donnell during the 1940s.

The 1960 Council Long Range Plan resulted in seven improvements to the camp:

- (1) The purchase of an additional 230 acres to the campgrounds
- (2) The availability of pressurized water to all areas of the camp
- (3) The addition of a four-acre wildlife pond and a new creek channel
- (4) Construction of a new shower-latrine building and sewage disposal unit
- (5) Tree planting throughout camp and a new rifle range
- (6) Addition of a modern, well-equipped kitchen to the dining hall
- (7) The construction of a new maintenance center

## Other Projects and Improvements to Camp Berry:

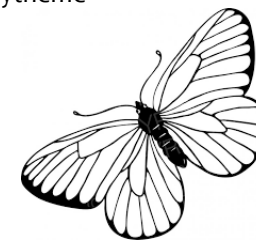
1. Steel roof on Camp Master Cabin / Health Lodge
2. Health Lodge converted to Camp Master Cabin in the fall through spring seasons
3. Steel roof and bathroom (including shower) on Scouter Cabin
4. Steel roof on Marcus Chapel
5. Howard Lodge built on former Woodsman Cabin site with steel roof, kitchen area, two bedrooms, large sleeping area upstairs, bathroom (including shower)
6. Boyd Shelter across from Howard Lodge
7. Backstop enlarged, new fence installed, classroom area installed and covered, and shooting line covered at Rifle Range
8. Classroom area and shooting line covered at Shotgun Range
9. Classroom area covered and shooting line fenced off and covered at Archery Range
10. Cabins built at all campsites east of Eagle Creek
11. Kitchen area and bathroom installed in Seneca Sam cabin
12. New windows and doors in all cabins
13. 40-foot climbing tower installed as part of the C.O.P.E. course
14. Shower house with multiple restrooms and showers installed
15. Kitchen and storage area renovated, and new wings built on north and south ends of Donnell Lodge
16. Trading post moved to south of Donnell Lodge
17. Scoutmaster Ring installed south of Trading Post
18. Gardner Adirondacks built on west side of Lake Orbit
19. Crockett Adirondacks moved to northeast of the flagpoles
20. Kit Carson Cabin remodeled; bedroom added on north side
21. Karl Edelbrock Nature Center added by the nature pond
22. Cub Scout Fort Ti-Wo-Be-Web added on the far west side of Camp Berry
23. Robbie McCracken Memorial Nature Trail created and dedicated starting southwest of the Nature Center

## Butterflies and Skippers

SUPERFAMILY	HESPERIOIDEA
FAMILY	HESPERIIDAE
	1. Epargyreus clarus
	2. Erynnis juvenalis
	3. Erynnis Horatius
	4. Pholisora Catullus
	5. Ancyloxypha numitor
	6. Thymelicus lineola
	7. Polites coras
	8. Polites themistocles
	9. Pompeius verna
	10. Poanes hobomok
	11. Euphyes ruricola

SUPERFAMILY	PAPILIONOIDEA
FAMILY	PAPILIONIDAE
	1. Battus philenor
	2. Eurytides marcellus
	3. Papilio polyxenes
	4. Heraclides cressphontes
	5. Pterourus glaucus
	6. Pterourus Troilus


FAMILY	PIERIDAE
	1. Pontia protodice
	2. Artogeia rapae
	3. Colias philodice
	4. Colias eurytheme





## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## Trees



1. Apple, Orchard
2. Arborvitae
3. Ash, Black
4. Ash, Green
5. Ash, Wafer
6. Ash, White
7. Aspen, Bigtooth
8. Basswood, American
9. Basswood, Linden
10. Beech, American
11. Buckeye, Ohio
12. Catalpa, Northern
13. Cedar, Eastern Red
14. Cherry, Wild Black
15. Chokecherry
16. Cottonwood, Eastern
17. Crabapple, Sweet
18. Dogwood, Flowering
19. Dogwood, Gray
20. Elder, Box
21. Elm, American
22. Elm, Slippery
23. Hackberry
24. Hawthorn
25. Hemlock, Eastern
26. Hickory, Bitternut
27. Hickory, Shagbark
28. Hickory, Shellbark
29. Hornbeam, American
30. Ironwood
31. Kentucky Coffee Tree
32. Locust, Black
33. Locust, Honey
34. Maple, Red
35. Maple, Silver

36. Maple, Sugar
37. Mulberry, Red
38. Mulberry, White
39. Oak, Black
40. Oak, Burr
41. Oak, Chestnut
42. Oak, Chinquapin
43. Oak, Northern Red Oak, Pin
44. Oak, Swamp White
45. Oak, White
46. Olive, Russian
47. Olive, Autumn
48. Osage, Orange
49. Pawpaw
50. Pear, Callery
51. Pine, Austrian
52. Pine, Norway
53. Pine, Pitch
54. Pine, Red
55. Pine, Scotch
56. Pine, Virginia
57. Pine, White
58. Redbud, Eastern
59. Spruce, Blue
60. Sweetgum, American
61. Sycamore
62. Tree of Heaven
63. Tulip tree / Yellow Poplar
64. Walnut, Black
65. Walnut, White Butternut
66. Willow, Bebb's
67. Willow, Black
68. Willow, Sandbar
69. Willow, Weeping

## Vines, Shrubs, Herbs, and Related Plants

1. Adam's Needle (*Yucca filamentosa*)
2. American Penny Royal (*Hedeoma pulegioidis*)
3. Angelica (*Angelica atropurpurea*)
4. Artichoke, Jerusalem
5. Bee Balm (*Monarda didyma*)
6. Beggar Ticks
7. Bindweed, Field (*Convolvulus arvensis*)
8. Bindweed, Hedge
9. Bittersweet, Oriental
10. Blackberry and Black Raspberry
11. Black-Eyed Susan (*rudbeckia hirta*)
12. Bladderbut, American
13. Bloodroot (*sanguinaria canadensis*) – POISON WARNING
14. Bone Set Thoroughwort (*Eupatorium perfoliatum*)
15. Bouncing Bet Soapwort (*Saponaria officinalis*)
16. Bushthorn
17. Burdock, common (*arctium micnis*)
18. Butter and Eggs (*Linaria vulgaris*)
19. Buttercup, common (*Ranunculus acris*)
20. Butterfly weed (*pleurisy root Asclepias tuberosa*)
21. Catnip (*Nepeta cataria*)
22. Cattail
23. Celadine (*Chebdonium majus*) – POISON WARNING
24. Chickweed (*Stellaria media*)
25. Chicory (*Cichorium intybus*)
26. Cinquefoil (*Potentilla arguta pursh*)
27. Cleavers (*Gallium aparine*)
28. Clover, White Sweet
29. Clover, Yellow Sweet
30. Cocklebur (*Xanthium strumarium*) – POISON WARNING
31. Coltsfoot (*Tusselago farfara*)
32. Comfrey (*Symphytum officinale*)
33. Common Evening Primrose (*Oenothera biennis*)
34. Common Plantain (*Plantago major*)
35. Common Strawberry (*Fragaria virginiana*)
36. Creeper, Trumpet
37. Creeper, Virginia

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ArA	Aurand loam, 0-2% slopes	5.8	1.8%
Blg1A1	Blount silt loam, ground moraine, 0-2% slopes	101.2	32.3%
Blg1B1	Blount silt loam, ground moraine, 2-4% slopes	65.4	20.9%
Blg2A1	Blount loam, ground moraine, 0-2% slopes	0.2	0.1%
BrA	Blount-Jenera complex, 0-3% slopes	3.4	1.1%
FdA	Flatrock silt loam, limestone substratum, 0-2% slopes, occasionally flooded	29.1	9.3%
Gwg1B1	Glynwood silt loam, ground moraine, 2-6% slopes	12.3	3.9%
Gwg5B2	Glynwood clay loam, ground moraine, 2-6% slopes, eroded	4.5	1.4%
Gwg5C2	Glynwood clay loam, ground moraine, 6-12% slopes, eroded	8.4	2.7%
HpA	Houcktown loam, 0-2% slopes	0.4	0.1%
HbB	Houcktown loam, 2-6% slopes	2.7	0.9%
JeB	Jenera fine sandy loam, 2-6% slopes	3.4	1.1%
MgA	Millsdale silty clay loam, 0-1% slopes	12.1	3.9%
OsB	Oshtemo sandy loam, till substratum, 2-6% slopes	1.5	0.9%
PmA	Pewamo silty clay loam, 0-1% slopes	55.6	17.7%
SeB	Shawtown loam, 2-6% slopes	2.1	0.7%
W	Water	5.4	1.7%
<b>Totals for Area of Interest</b>		<b>313.3</b>	<b>100.0%</b>



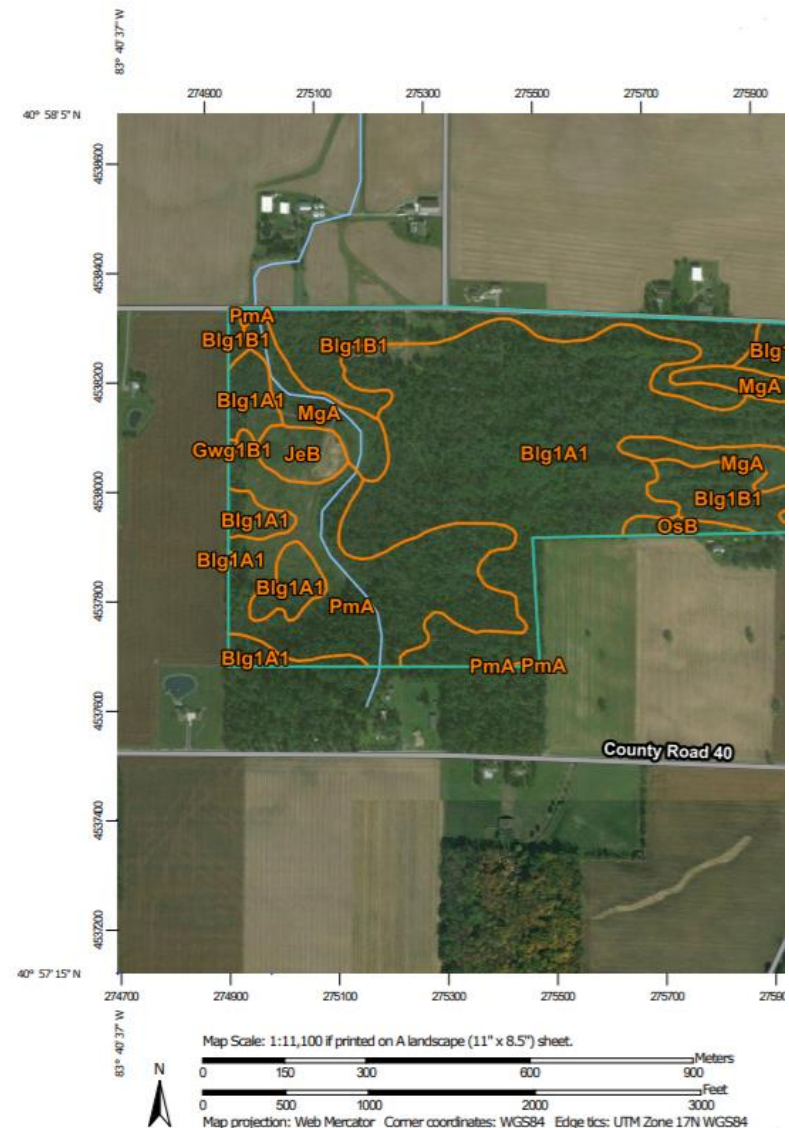
38. Creeping Wood Sorrel (*Oxalis corniculata*)
39. Curly Dock
40. Daisy Fleabane (*Erigeron philadelphicus*)
41. Dandelion (*Taraxacum officinale*)
42. Dutchman's Breeches (*Dicentra cucullaria*)
43. Dwarf Ginsberg (*Panax trifolius*)
44. Elderberry
45. False Solomon's Seal (*Smilacina racemose*)
46. Fennel (*Foeniculum vulgare*)
47. Feverfew (*Chrysanthemum parthenium*)
48. Foamflower (*Tiarella cordifolia*)
49. Foxtail, yellow, green, and giant
50. Garlic (*Allium sativum*)
51. Golden Ragwort (*Senecia aureus*)
52. Goldenrod (many different types)
53. Grape, Frost
54. Grape, Riverbank
55. Grape, Summer
56. Grass, Barnyard
57. Grass, Crab
58. Grass, Goose
59. Grass, Johnson
60. Grass, Quack
61. Greenbrier, Common (*Smilax rotundifolia*)
62. Greenbrier, Bristly (*Smilax tamnoides*)
63. Heal All Self Heal (*Prunella vulgaris*)
64. Hemp Dogbane
65. Honeysuckle, Amur
66. Honeysuckle, Japanese
67. Honeysuckle, Wild
68. Hops
69. Horse Weed (*Eregeron canadensis*)
70. Iron Weed (*Veronia glauca*)
71. Jack in the Pulpit (*Arisaema triphyllum*)
72. Jimson Weed (*Datura stramonium*) – TOXIC
73. Joe Pye Weed (*Eupetorium maculatum*)
74. Juniper species
75. Lambsquarters (*Chenopodium album*)
76. Lemon Balm Melissa (*Mellissa officinalis*)
77. Mallow Cheeses, common (*Malva neglecta*)
78. Mallow (*Mallow sylvestius*)
79. Mayapple, American Mandrake (*Podophyllum pettatum*)
80. Mayweed Dog Fennel (*Anthemis cartula*) – VERY BAD ODOR
81. Meadow Street / Queen of the Meadow (*Philipendula ulmaria*)



82. Milkweed (*Asclepias quadrifolia*)
83. Moonseed, Common (*Menispermum canadense*)
84. Motherwort (*Leonurus cardiaca*)
85. Mountain Mint (*Pycnanthemum virginianum*)
86. Mugwort
87. Mullien, common (*Verbascum thapsus*)
88. New England Aster (*Aster novae angliae*)
89. Nightshade, Bittersweet – POISON
90. Nightshade, Black – POISON
91. Nightshade, Common (*Solanum nigrum*) – POISON
92. Panicum, Fall
93. Pigweed, Green Amaranth (*Amaranthus retroflexus*)
94. Pigweed, Redroot
95. Pineapple Weed
96. Plantain, regular and buckhorn
97. Poison Hemlock
98. Poison Ivy – POISON
99. Poison Oak – POISON
100. Pokeweed (*Phytolacca americana*) – POISON
101. Poor Man's Pepper, Peppergrass (*Lepidium virginicum*)
102. Privet, Wild
103. Purple Cornflower (*Echinecea purpurea*)
104. Purple Loasestripe (*Lythrum salicaria*)
105. Purslane (*Portulaca oleracea*)
106. Queen Anne's Lace / Wild Carrot (*Daucus carota*)
107. Ragweed, common and giant
108. Red Baneberry (*Actaea rubra*) – POISON
109. Red Trillium, Wakerobin bethroot (*Trillium erectum*)
110. Rose, Multiflora
111. Rose, Prairie
112. Rose, Swamp
113. Rose, Wild
114. Round Headed Bush-clover (*Lespedeza capetata*)
115. Shepherd's Purse (*Capsella bursa-pastoris*)
116. Smart Weed
117. Spicebush
118. Solomon Seal (*Polygonatum biflorum*)
119. Sourdock
120. Spanish Needles (*Bidens bipinnata*)

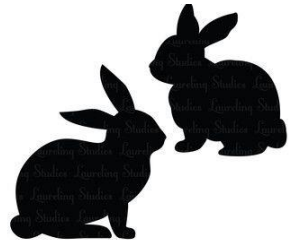
## Rocks, Minerals, and Soil

Soil Map of Camp Berry: (key to follow)



# Mammals

1. Bat, Big Brown
2. Bat, Brown
3. Bat, Eastern Red
4. Bat, Indiana
5. Chipmunk, Eastern
6. Coyote, Eastern
7. Deer, White-tailed
8. Fox, Gray
9. Fox, Red
10. Groundhog (Woodchuck)
11. Mink
12. Mole, Eastern
13. Mouse, Deer
14. Mouse, House
15. Mouse, White-footed
16. Muskrat
17. Myotis, Small Brown
18. Opossum, Virginia
19. Rabbit, Eastern Cottontail
20. Raccoon
21. Rat, Norway
22. Shrew, Common / Masked
23. Shrew, Old, Field
24. Shrew, Short-tailed
25. Skunk, Striped
26. Squirrel, Fox
27. Squirrel, Red
28. Squirrel, Southern Flying
29. Vole, Meadow
30. Weasel, Least



121. St. Johnswort, common (*Hypericum perforatum*)
122. Stinging Nettle (*Urtica dioica*)
123. Sumac, smooth (*Rhus glabra*)
124. Sumac, Staghorn
125. Sunflower (*Helianthus annuus*)
126. Sweet Cicely (*Osmorhiza lonistylis*)
127. Sweet Flag (*Acorus americanus*)
128. Tansy, common (*Tanacetum vulgare*)
129. Teasel
130. Thistle, Canadian (*Cirsium arvense*)
131. Thistle, Sow
132. Trout Lily (*Erythronium americanum*)
133. Valerian (*Valeriana officinalis*)
134. Velvet Leaf (*Abutilon theophrastic*)
135. Viburnum, Highbush Cranberry
136. Viburnum, Maple-leaf
137. Violet
138. White Baneberry / Doll's Eyes (*Actaea pachypoda*) – POISON
139. White Clover (*Trifolium repens*)
140. White Snakeroot (*Eupatorium rugosum*) – POISON
141. White Sweet-Clover (*Melilotus alba*)
142. Wild Geranium (*Geranium robertianum*)
143. Wild Ginger (*Asarum canadense*)
144. Wild Mint (*Mentha canadensis*)
145. Wild Mustard (*Brassica Rapa*)
146. Wormwood (*Artemisia absinthium*) – POISON
147. Yarrow *Achillea Millefolium*
148. Yellow Jewelweed / Pale Touch-Me-Not (*Impatiens pallida*)
149. Yellow Nutsedge
150. Yellow Rocket

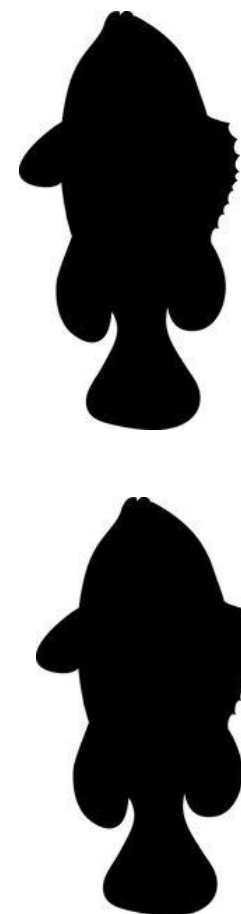


## Birds

- |                               |                                |
|-------------------------------|--------------------------------|
| 1. Bittern, American          | 36. Egret, Cattle              |
| 2. Blackbird, Brewer's        | 37. Egret, Great               |
| 3. Blackbird, Red-winged      | 38. Falcon, Peregrine          |
| 4. Blackbird, Rusty           | 39. Finch, House               |
| 5. Blue Jay                   | 40. Finch, Purple              |
| 6. Bluebird, Eastern          | 41. Flicker, Northern          |
| 7. Bobolink                   | 42. Flycatcher, Acadian        |
| 8. Bobwhite, Northern         | 43. Flycatcher, Alder          |
| 9. Bufflehead                 | 44. Flycatcher, Great Crested  |
| 10. Bunting, Indigo           | 45. Flycatcher, Least          |
| 11. Bunting, Snow             | 46. Flycatcher, Olive-sided    |
| 12. Canvasback                | 47. Flycatcher, Willow         |
| 13. Cardinal, Northern        | 48. Flycatcher, Yellow-bellied |
| 14. Catbird, Gray             | 49. Gadwall                    |
| 15. Chat, Yellow-breasted     | 50. Gallinule                  |
| 16. Chickadee, Black-capped   | 51. Gnatcatcher, Blue-gray     |
| 17. Chickadee, Carolina       | 52. Goldeneye, Common          |
| 18. Coot, American            | 53. Goldfinch, American        |
| 19. Cormorant, Double-crested | 54. Goose, Cackling            |
| 20. Cowbird, Brown-headed     | 55. Goose, Canada              |
| 21. Crane, Sandhill           | 56. Goose, Snow                |
| 22. Creeper, Brown            | 57. Goshawk, Northern          |
| 23. Crossbill, Red            | 58. Grackle, Common            |
| 24. Crossbill, White-winged   | 59. Grebe, Horned              |
| 25. Crow, American            | 60. Grebe, Pied-billed         |
| 26. Cuckoo, Black-billed      | 61. Grosbeak, Blue             |
| 27. Cuckoo, Yellow-bellied    | 62. Grosbeak, Evening          |
| 28. Dickcissel                | 63. Grosbeak, Pine             |
| 29. Dove, Mourning            | 64. Grosbeak, Rose-breasted    |
| 30. Dowitcher, Short-billed   | 65. Gull, Bonaparte's          |
| 31. Duck, American Black      | 66. Gull, Herring              |
| 32. Duck, Ring-necked         | 67. Gull, Ring-billed          |
| 33. Duck, Ruddy               | 68. Harrier, Northern          |
| 34. Duck, Wood                | 69. Hawk, Broad-winged         |
| 35. Eagle, Bald               | 70. Hawk, Cooper's             |

## Fish

1. Bass, Largemouth
2. Bass, Rock
3. Bass, Smallmouth
4. Bluegill
5. Bullhead, Yellow
6. Bullhead, Black
7. Bullhead, Brown
8. Carp, Common
9. Carp, Grass
10. Catfish, Channel
11. Chub, Creek
12. Crappie, White
13. Darter, Blackside
14. Darter, Fantail
15. Darter, Greenside
16. Darter, Johnny
17. Darter, Rainbow
18. Fish, Buffalo
19. Hogsucker, Northern
20. Madtom, Brindled
21. Minnow, Bluntnose
22. Minnow, Fathead
23. Minnow, Silverjaw
24. Pickerel, Grass
25. Pumpkinseed
26. Shad, Gizzard
27. Shiner, Emerald
28. Shiner, Redfish
29. Shiner, Striped
30. Stoneroller, Central
31. Sucker, Spotted
32. Sucker, White
33. Sunfish, Green
34. Sunfish, Orangespotted
35. Topminnow, Blackstripe



## Amphibians

1. Blanchard's Cricket Frog
2. Bullfrog
3. Gray Treefrog
4. Green Frog
5. Northern Leopard Frog
6. Pickerel Frog
7. Western Chorus Frog
8. American Toad
9. Fowler's Toad
10. Jefferson Salamander
11. Small-mouthed Salamander
12. Common Mudpuppy
13. Spring Peeper



## Reptiles



1. Five-lined Skink
2. Black Rat Snake
3. Blue Racer Snake
4. Eastern Garter Snake
5. Eastern Milk Snake
6. Eastern Ribbon Snake
7. Northern Brown Snake
8. Northern Water Snake
9. Queen Snake
10. Smooth Queen Snake
11. Eastern Spiny Softshell Turtle
12. Northern Map Turtle
13. Midland Painted Turtle
14. Musk Turtle
15. Common Snapping Turtle

71. Hawk, Red-shouldered
72. Hawk, Red-tailed
73. Hawk, Rough-legged
74. Hawk, Sharp-shinned
75. Heron, Great Blue
76. Heron, Green
77. Hummingbird, Ruby-throated
78. Junco, Dark-eyed
79. Kestrel, American
80. Killdeer
81. Kingbird, Eastern
82. Kingfisher, Belted
83. Kinglet, Golden-crowned
84. Kinglet, Ruby-crowned
85. Lark, Horned
86. Longspur, Lapland
87. Loon, Common
88. Mallard
89. Martin, Purple
90. Meadowlark, Eastern
91. Merganser, Common
92. Merganser, Hooded
93. Merganser, Red-breasted
94. Mockingbird, Northern
95. Nighthawk, Common
96. Night-Heron, Black-crowned
97. Night-Heron, Yellow-crowned
98. Nuthatch, Red-breasted
99. Nuthatch, White-breasted
100. Oriole, Baltimore
101. Oriole, Orchard
102. Osprey
103. Ovenbird
104. Owl, Barn
105. Owl, Barred
106. Owl, Eastern Screech
107. Owl, Great Horned
108. Owl, Long-eared
109. Owl, Northern Saw-whet
110. Owl, Short-eared
111. Parula, Northern
112. Pheasant, Ring-necked
113. Phoebe, Eastern
114. Pigeon, Rock
115. Pipit, American
116. Plover, American Golden
117. Plover, Black-bellied
118. Plover, Semipalmated
119. Redhead
120. Redpoll, Common
121. Redstart, American
122. Robin, American
123. Sandpiper, Least
124. Sandpiper, Pectoral
125. Sandpiper, Semipalmated
126. Sandpiper, Solitary
127. Sandpiper, Spotted
128. Sandpiper, White-rumped
129. Sapsucker, Yellow-bellied
130. Scaup, Lesser
131. Shoveler, Northern
132. Shrike, Loggerhead
133. Shrike, Northern
134. Siskin, Pine
135. Snipe, Wilson's
136. Sora
137. Sparrow, American Tree
138. Sparrow, Chipping
139. Sparrow, Field
140. Sparrow, Fox
141. Sparrow, Grasshopper
142. Sparrow, Henslow's
143. Sparrow, House
144. Sparrow, Lincoln's

- |                                     |                                    |
|-------------------------------------|------------------------------------|
| 145. Sparrow, Savannah              | 182. Warbler, Blackburnian         |
| 146. Sparrow, Song                  | 183. Warbler, Blackpoll            |
| 147. Sparrow, Swamp                 | 184. Warbler, Black-throated Blue  |
| 148. Sparrow, Vesper                | 185. Warbler, Black-throated Green |
| 149. Sparrow, White-crowned         | 186. Warbler, Blue-winged          |
| 150. Sparrow, White-throated        | 187. Warbler, Canada               |
| 151. Starling, European             | 188. Warbler, Cape May             |
| 152. Swallow, Bank                  | 189. Warbler, Cerulean             |
| 153. Swallow, Barn                  | 190. Warbler, Chestnut-sided       |
| 154. Swallow, Cliff                 | 191. Warbler, Connecticut          |
| 155. Swallow, Northern Rough-winged | 192. Warbler, Golden-winged        |
| 156. Swallow, Tree                  | 193. Warbler, Hooded               |
| 157. Swan, Tundra                   | 194. Warbler, Kentucky             |
| 158. Swift, Chimney                 | 195. Warbler, Magnolia             |
| 159. Tanager, Scarlet               | 196. Warbler, Mourning             |
| 160. Tanager, Summer                | 197. Warbler, Nashville            |
| 161. Teal, Blue-winged              | 198. Warbler, Orange-crowned       |
| 162. Teal, Green-winged             | 199. Warbler, Palm                 |
| 163. Tern, Common                   | 200. Warbler, Pine                 |
| 164. Thrasher, Brown                | 201. Warbler, Prairie              |
| 165. Thrush, Gray-cheeked           | 202. Warbler, Prothonotary         |
| 166. Thrush, Hermit                 | 203. Warbler, Tennessee            |
| 167. Thrush, Swainson's             | 204. Warbler, Wilson's             |
| 168. Thrush, Wilson's               | 205. Warbler, Worm-eating          |
| 169. Thrush, Wood                   | 206. Warbler, Yellow               |
| 170. Towhee, Eastern                | 207. Warbler, Yellow-rumped        |
| 171. Tufted Titmouse                | 208. Warbler, Yellow-throated      |
| 172. Turkey Vulture                 | 209. Waterthrush, Louisiana        |
| 173. Turkey, Wild                   | 210. Waterthrush, Northern         |
| 174. Vireo, Blue-headed             | 211. Waxwing, Cedar                |
| 175. Vireo, Philadelphia            | 212. Whip-poorwill, Eastern        |
| 176. Vireo, Red-eyed                | 213. Wigeon, American              |
| 177. Vireo, Warbling                | 214. Woodcock, American            |
| 178. Vireo, White-eyed              | 215. Woodpecker, Downy             |
| 179. Vireo, Yellow-throated         | 216. Woodpecker, Hairy             |
| 180. Warbler, Bay-breasted          | 217. Woodpecker, Pileated          |
| 181. Warbler, Black-and-white       |                                    |

- 218. Woodpecker, Red-bellied
- 219. Woodpecker, Red-headed
- 220. Wood Pewee, Eastern
- 221. Wren, Bewick's
- 222. Wren, Carolina
- 223. Wren, House
- 224. Wren, Marsh
- 225. Wren, Winter
- 226. Yellowlegs, Greater
- 227. Yellowlegs, Lesser
- 228. Yellowthroat, Common

