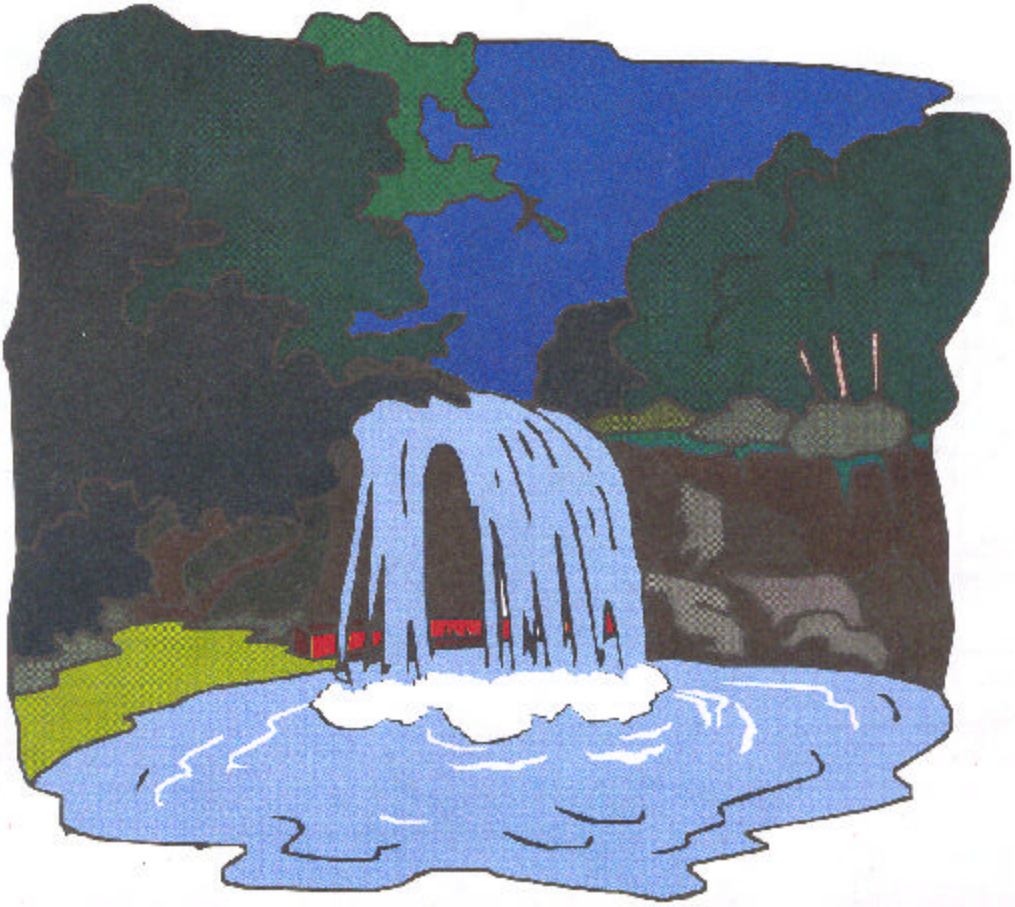
Activity Booklet for Young Mountaineers



This book belongs to:

_____

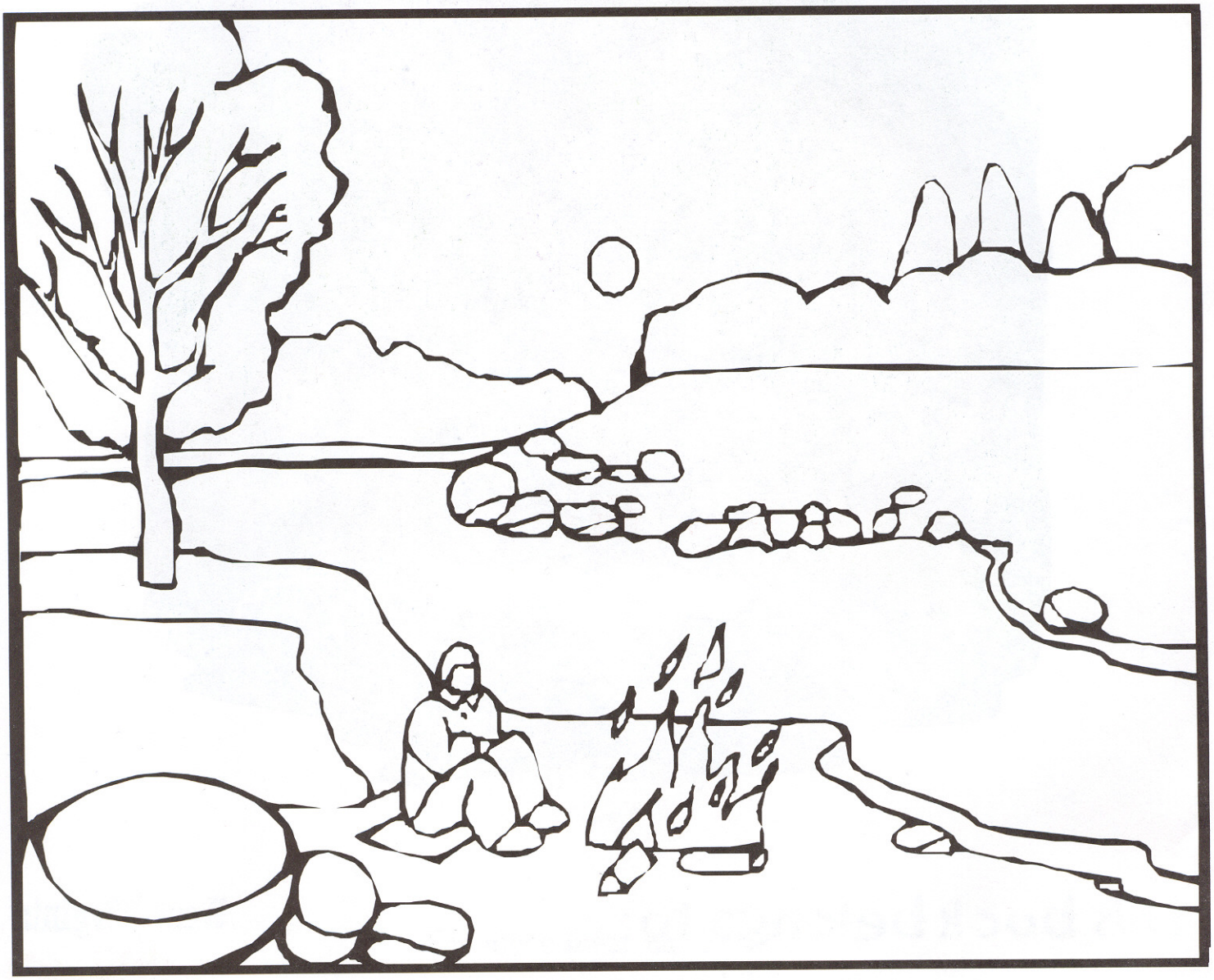
West Virginia

Make It Shine

All things are connected.

All living creatures breathe the air, drink the water and share this planet. It's up to us to protect our natural resources and make this world a clean and safe place to live.

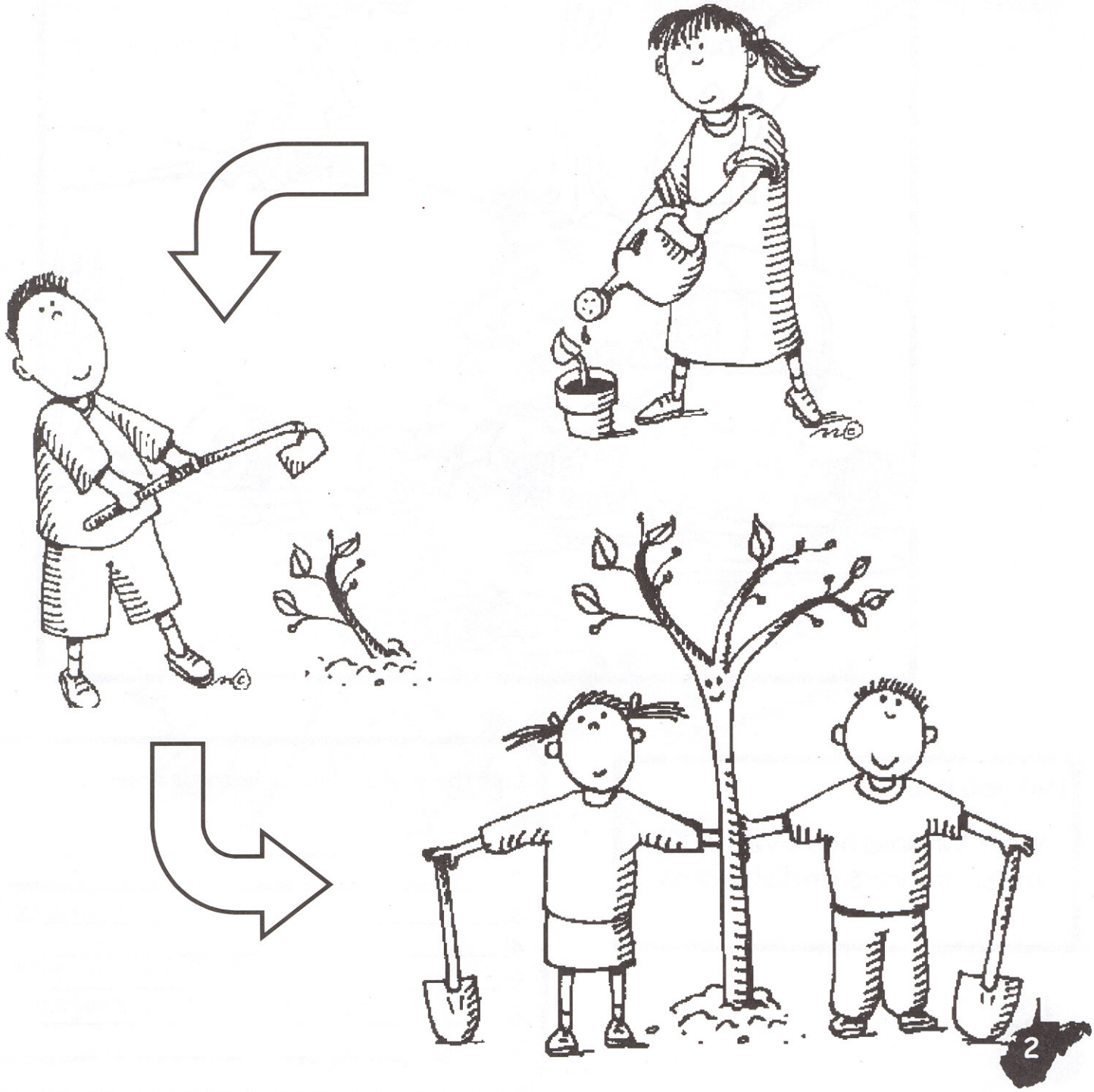
Color the picture and make the world beautiful.



Renewing our resources.

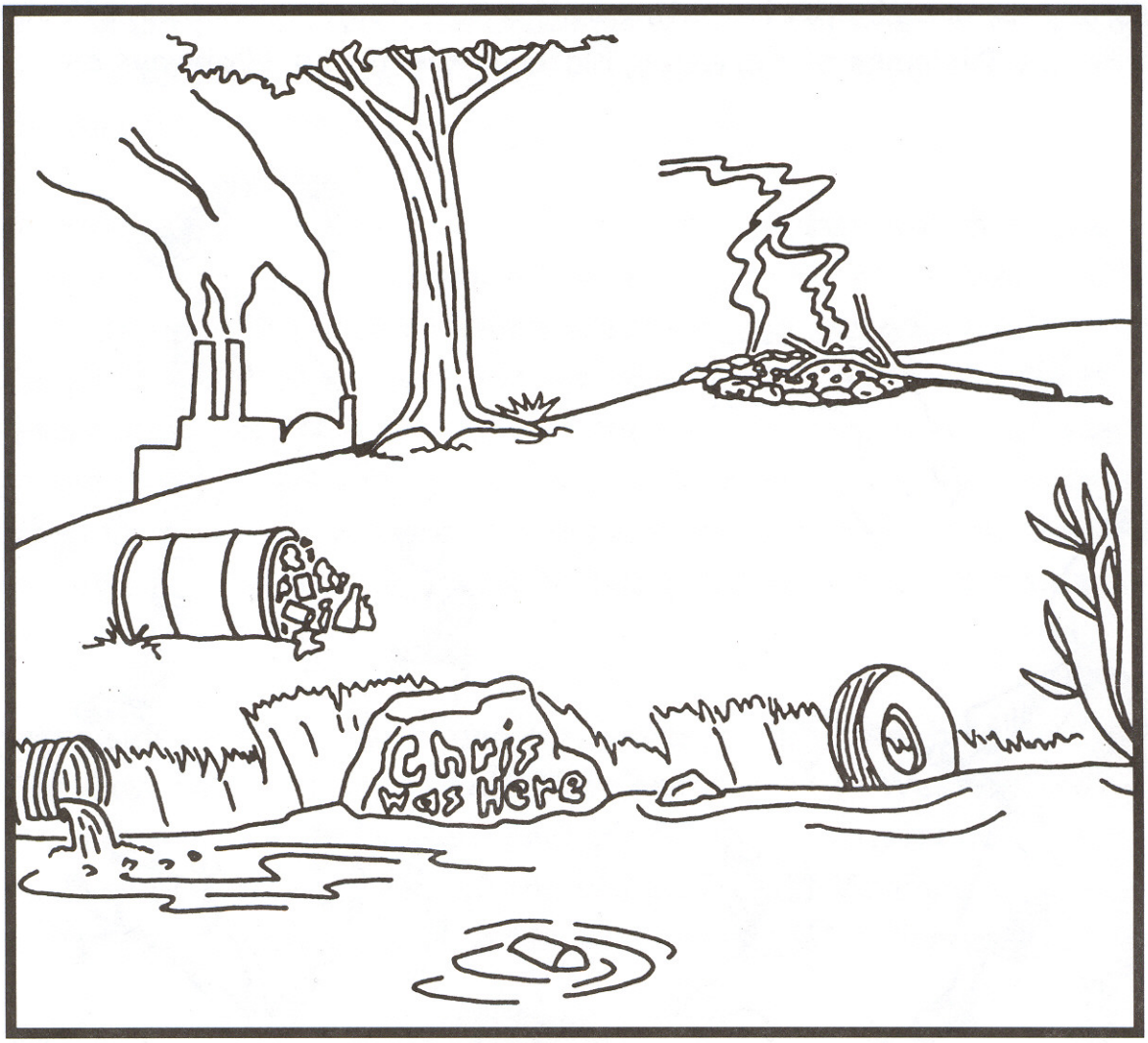
West Virginia's trees are a valuable resource. Planting trees not only brings beauty to the landscape, it also provides shade and windbreaks for us as well as habitat and food for many species of birds and mammals.

Plant trees in your area by participating in the Mountaineer Treeways Program sponsored by the WV Divisions of Forestry, Natural Resources, Highways and the Turnpike Authority.



Clean water and air.

We can help stop pollution of the air, water and land.
Circle the 7 environmental hazards in this picture.



Did you know?...

West Virginia has over 2,000 miles of rivers and streams.

List the environmental hazards from above:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

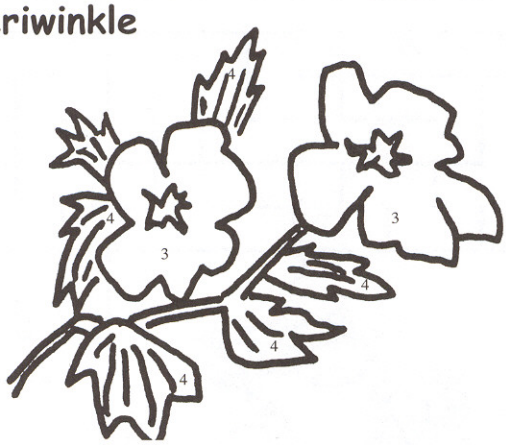
Operation Wildflower.

We can help make West Virginia's roadways more beautiful through the Operation Wildflower Program. This program plants West Virginia flowers along highways in order to sustain the natural beauty of our state.

Using the color chart, color these West Virginia plants.

1 - Orange
2 - Yellow
3 - Purple
4 - Green

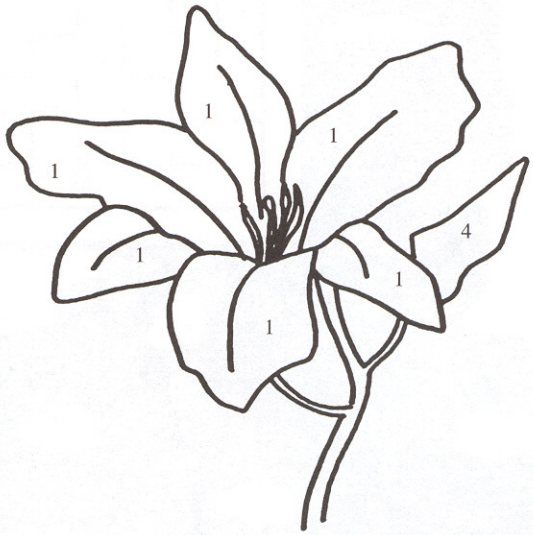
Periwinkle



Black Eyed Susan

Chicory

Daylilly

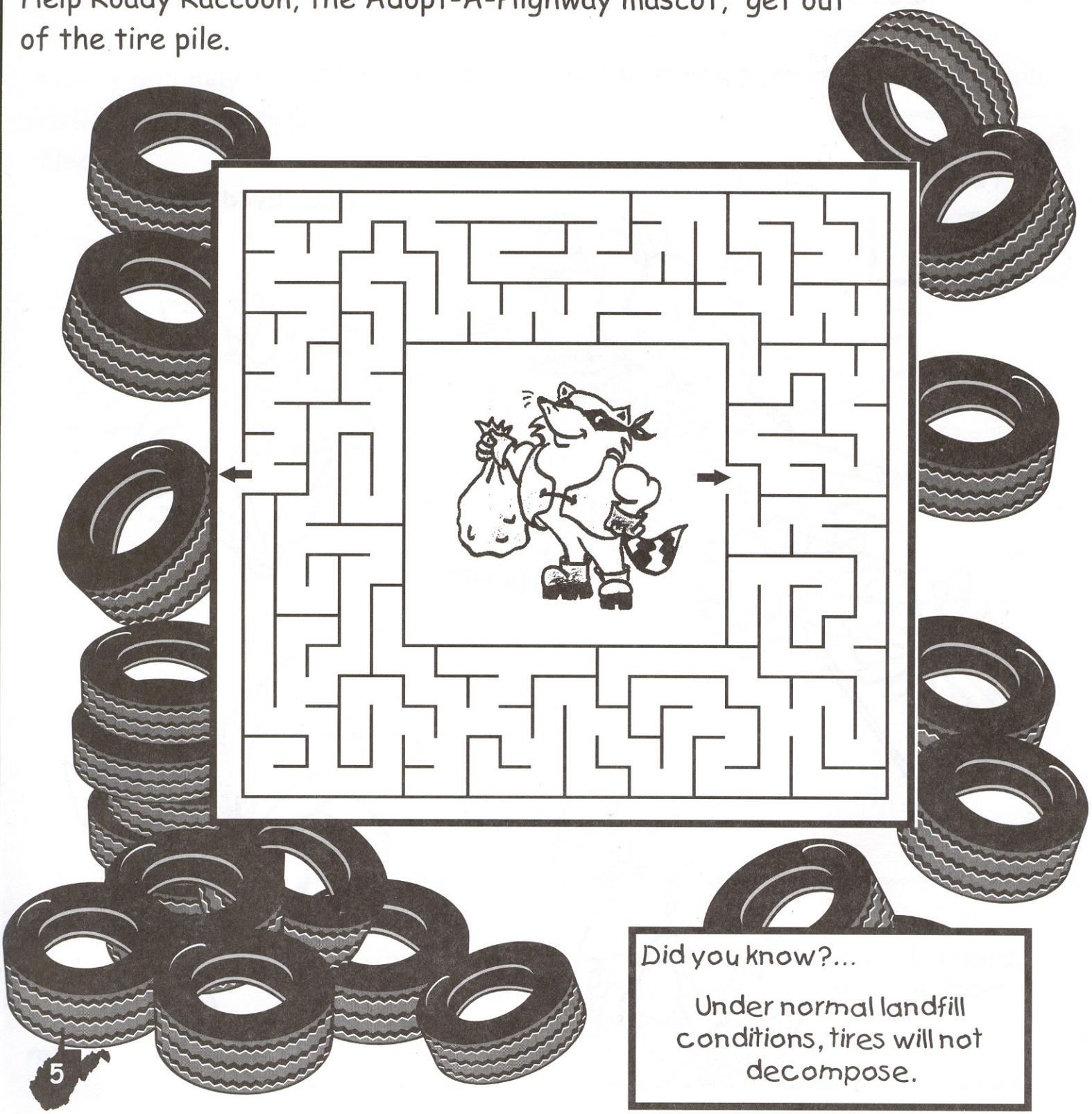


Buttercup

Tires?

You should never climb on or play around waste tire piles. Shifting tires can injure you. Waste tires collect standing water which attracts mosquitoes that may carry diseases.

Help Roady Raccoon, the Adopt-A-Highway mascot, get out of the tire pile.



Did you know?...

Under normal landfill conditions, tires will not decompose.

Open dumps?

Open dumps are illegal and ugly. Please dispose of your garbage in a designated landfill. Many different things can be found in an open dump.

See if you can find these items:

BOTTLE	NEWSPAPER
CAR	OIL CAN
COUCH	POP CAN
DRUM	SHINGLES
LAWN CHAIR	TIN
MOSQUITO	TIRE
MOUSE	WIRE

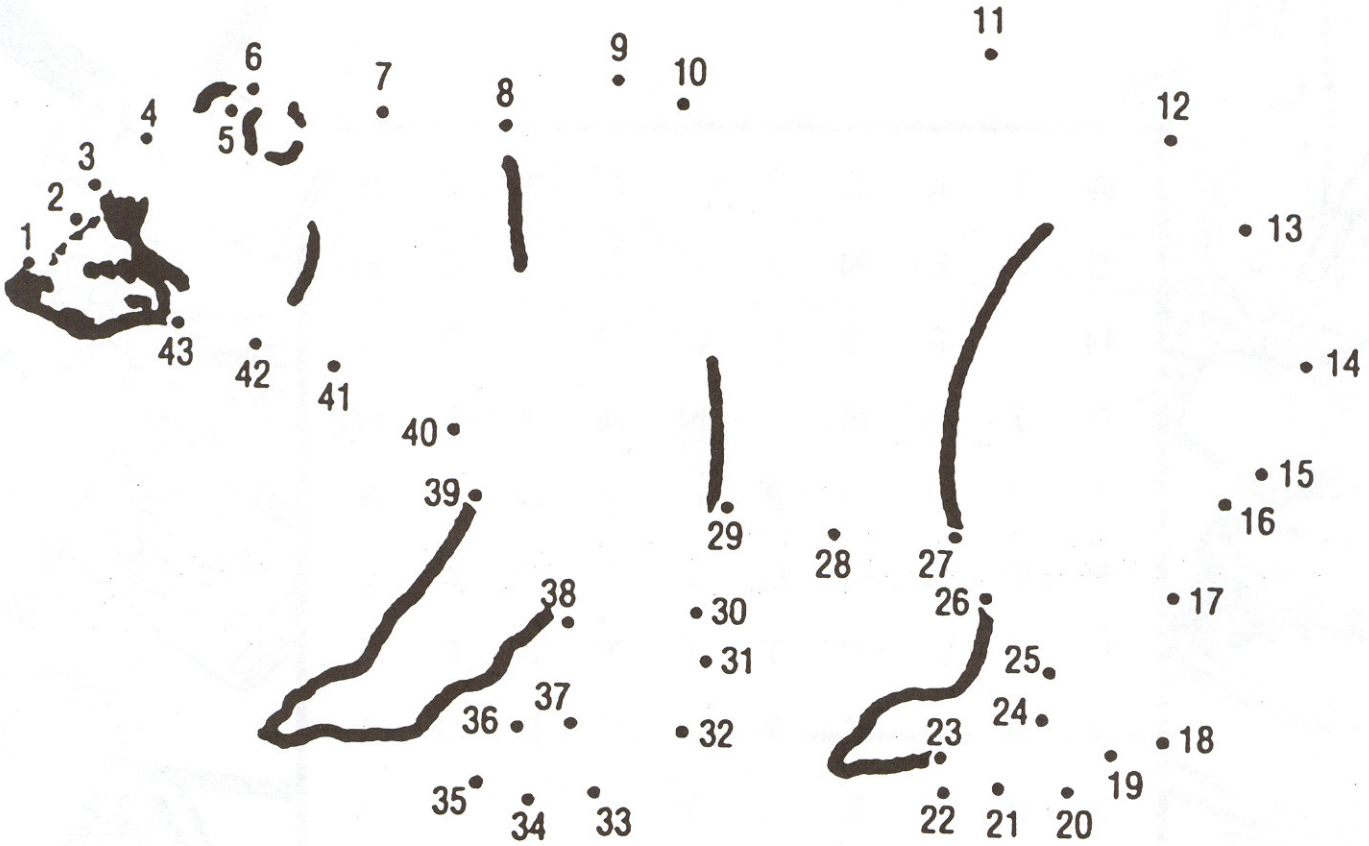
W	I	R	E	E	L	U	T	P	S
S	S	E	N	A	C	L	I	O	H
H	M	P	B	Y	W	H	K	B	I
R	I	A	H	C	N	W	A	L	N
O	I	P	O	P	C	A	N	B	G
M	O	S	Q	U	I	T	O	C	L
U	C	W	B	T	E	T	W	O	E
R	A	E	I	R	T	T	D	U	S
D	R	N	I	L	T	O	S	C	H
F	X	T	E	S	U	O	M	H	X

State facts.

STATE ANIMAL:

The Black Bear, or *Ursus americanus,* is actually deeply tinted with brown. Its habitat in West Virginia is primarily in the eastern mountain region. The black bear still roams freely throughout 32 states and Canada.

Either one or two cubs, rarely three, are born at a time, weighing about eight ounces each. The weight of a black bear ranges from 125 lbs. to 600 lbs., and they have a life span of up to 25 years or more.



Did you know?...

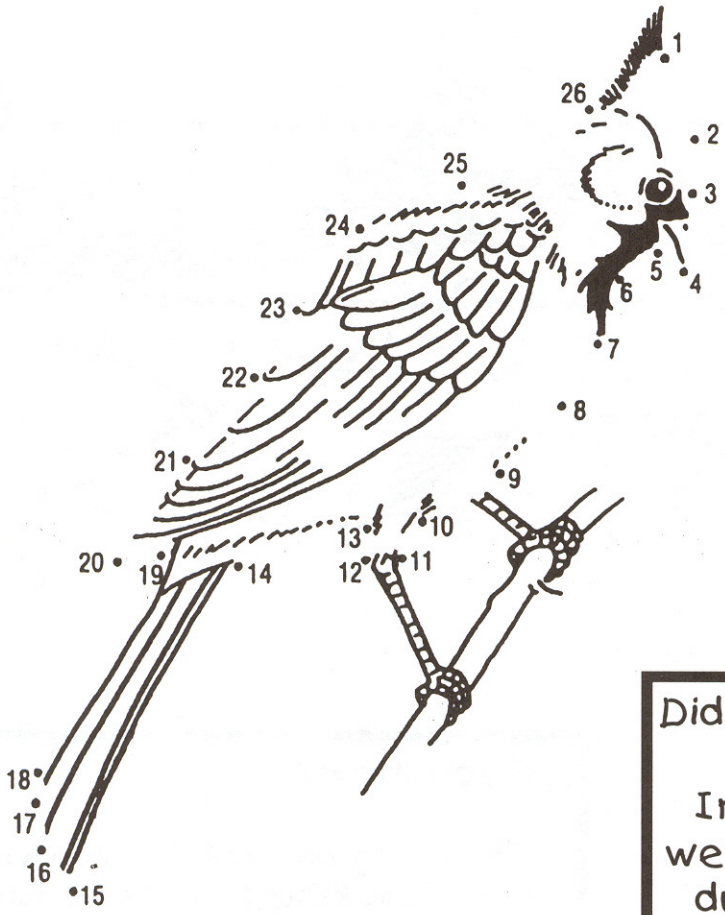
The border of West Virginia is 1,365 miles flat.

State facts.

STATE BIRD:

The Cardinal was made West Virginia's official bird by concurrent resolution of the 1949 Legislature. The male of the species is a rich Scarlet color with a mask and shading of black, while the young birds and females are less brilliant in color.

The cardinal measures approximately eight inches long and is found from New York State to the Gulf of Mexico and as far west as Oklahoma. Its scientific name is *Cardinalis cardinalis.*



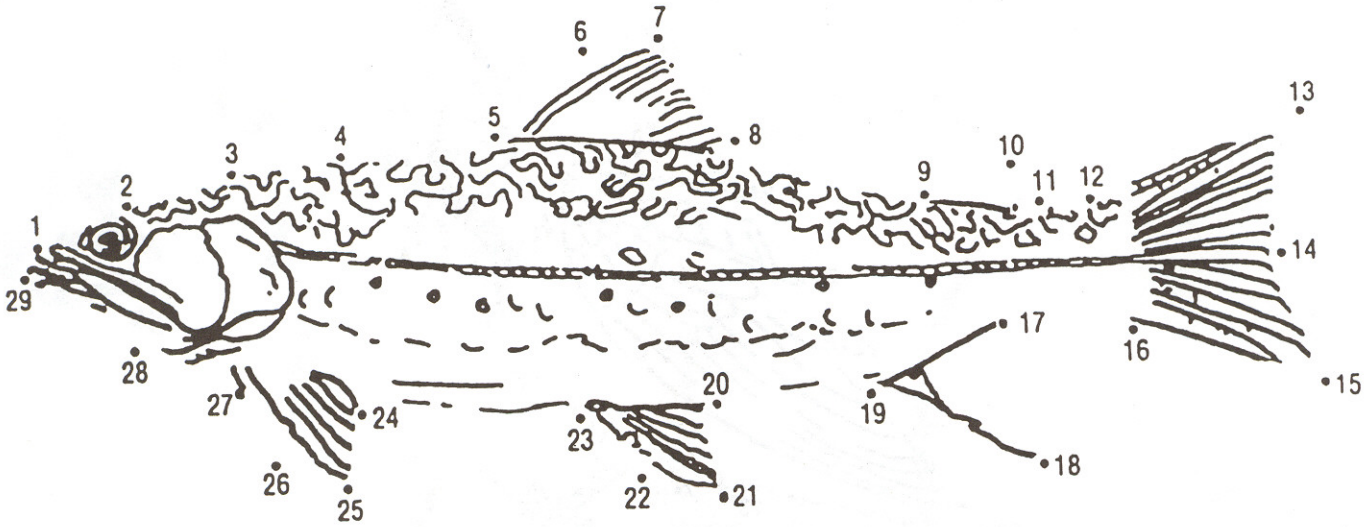
Did you know?...

In May 1860, the first well in the state for producing crude oil was drilled at Burning Springs.

State facts.

STATE FISH:

The Brook Trout, a native of West Virginia waters, is perhaps the most sought after trout. It puts up an excellent fight for its size. Not being able to withstand higher temperatures, it does best in small, cold, spring-fed streams. The brook trout is olive with lighter sides and a reddish belly (in males) and is easily identified by the light colored edges of the lower fins. Its hatchery growth averages six to eight inches in length soon after birth.



Did you know?...

Thomas "Stonewall" Jackson was born in Clarksburg, Harrison County.
The Confederate General's boyhood home at Jackson's Mill, near Weston became the first state 4-H Club Camp in the United States.

State facts.

STATE BUTTERFLY:

The Monarch Butterfly was designated West Virginia's official state butterfly on March 1, 1995 by the Legislature. The orange and black insect dines on milkweed as a caterpillar, sips nectar from flowers as a butterfly and at summer's end, migrates south to Mexico.

The butterflies that you see in the spring are the great grandchildren of the ones that lived in Mexico during the winter.

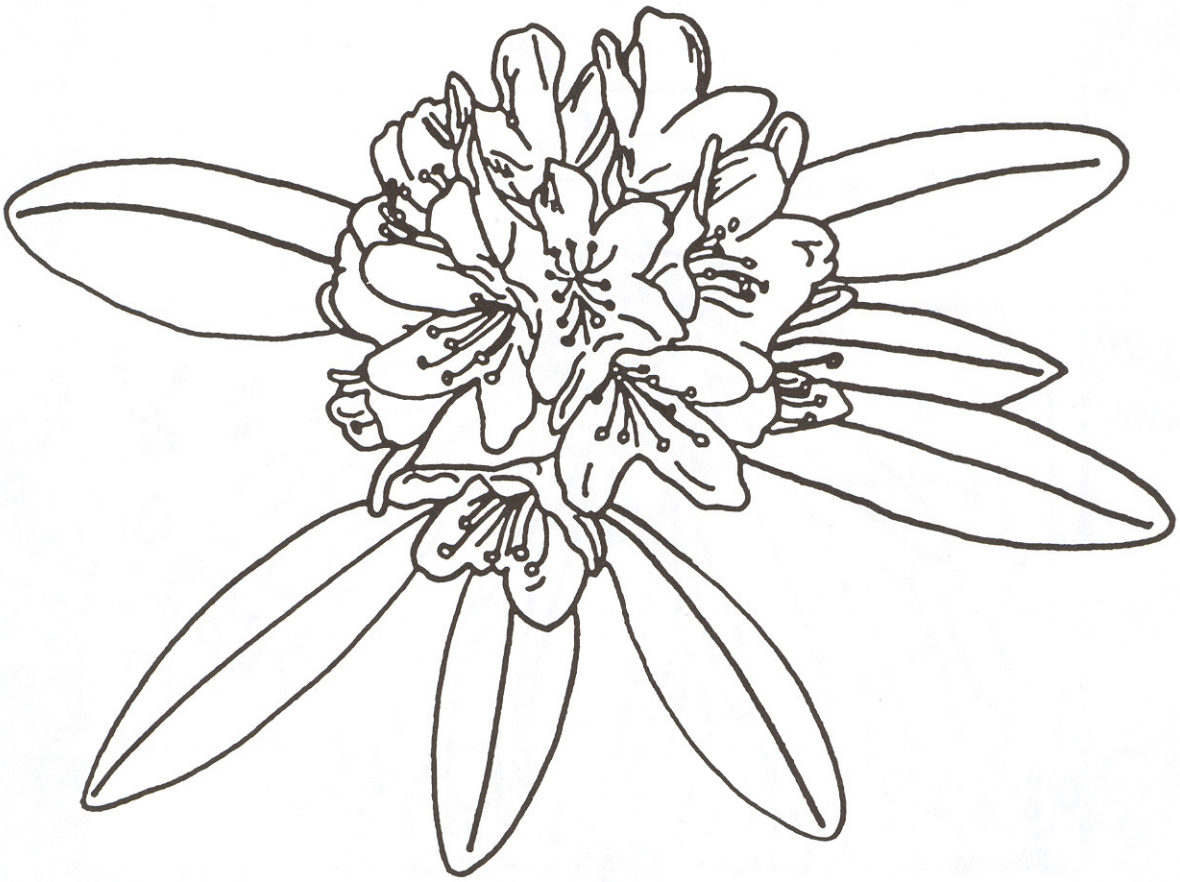
Did you know?...

Organ Cave is the third largest cave in the United States and the largest in the world.

State facts.

STATE FLOWER:

The *Rhododendron maximum,* or "big laurel," is the state flower of West Virginia. It was selected on January 23, 1903, by the Legislature, following a vote by pupils of the public schools. It is a shrub of the heath family and may be recognized by its large dark evergreen leaves and delicate pale pink or white bloom, mottled with either orange or yellow flecks.



Did you know?...

"Paw-Paws," nicknamed the "West Virginia banana," originated in the state and took their name from Paw-Paw, Morgan County.

STATE TREE:

The Sugar Maple, *Acer saccarum* as it is known scientifically, was made West Virginia's official tree by a resolution of the 1949 Legislature. It provides an excellent wood for furniture and produces maple syrup. A single tree is 70-120 feet high and produces two to three pounds of sugar when "sugared-off." It has a five-lobed leaf and a small wing-shaped seed pod. In the fall the leaves turn brilliant yellow or scarlet.

Did you know?...

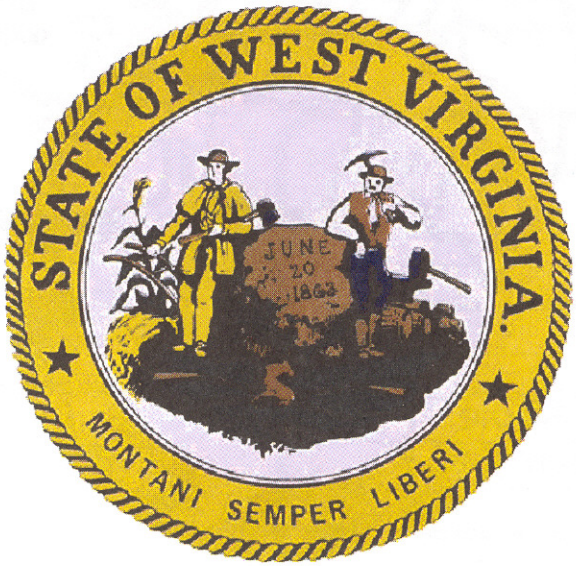
The Golden Delicious Apple originated in Clay County.

STATE SEAL:

Joseph H. Diss Debar, an artist from Doddridge County, was chosen by a committee of the Legislature to prepare drawings for an official seal for the state of West Virginia. The artist submitted his drawings with an explanation of each detail and from these was adopted, by the Legislature, a seal which has remained without change, the Official Seal of West Virginia.

The seal contains the Latin motto, *Montani Semper Liberi*, which means "Mountaineers Are Always Free." A large stone in the center of the seal stands for strength. On the stone is the date on which West Virginia was admitted to the Union, June 20, 1863. The farmer with his axe represents agriculture and the miner with his pick represents industry. In front of the rock are two rifles, crossed and surmounted at the place of contact by the Phrygian cap, or cap of liberty, indicating that freedom and liberty were won and will be maintained by the force of arms. While the seal was designed and adopted with two sides, only the front side is in common use.

The reverse side features laurel and oak leaves, a log house, hills, factories and boats, and is the Governor's Official Seal. The Constitution of West Virginia, Article 2, Section 7, provides that: "The present seal of the state, with its motto 'Montani Semper Liberi,' shall be the great seal of the state of West Virginia, and shall be kept by the secretary of state, to be used by him, officially as directed by law."



Environmental education resources on the net.

FEDERAL

USDA Natural Resources Conservation Service
www.nrcs.usda.gov

USDA Forest Service
www.fs.fed.us

U.S. Fish & Wildlife Service
www.fws.gov

U.S. Environmental Protection Agency
www.epa.gov

U.S. EPA Explorer's Club
www.epa.gov/kids/

NASA-What on Earth?
www.gaia.hq.nasa.gov/quiz/quiz_start-template.cfm

INDEPENDENT

Kids for Saving Earth
www.kidsforsavingearth.org

Envirolink
www.envirolink.org

The National Wildlife Federation
www.nwf.org

The Izaac Walton League
www.iwla.org

Discovery Channel Website
www.Discoveryschool.com

STATE

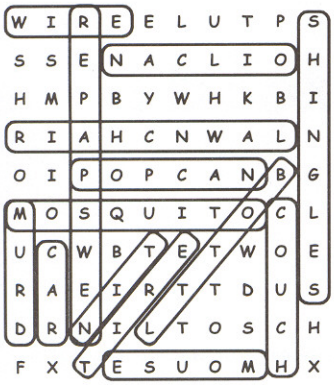
WV Division of Natural Resources
Environmental Resources Section
www.dnr.state.wv.us/WVERS

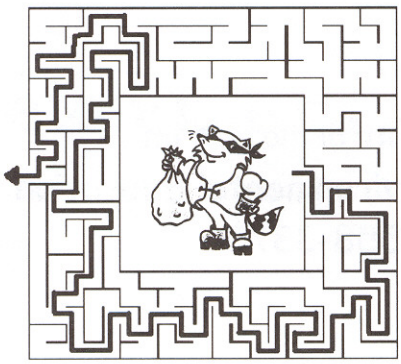
WV Department of Environmental Protection
www.dep.state.wv.us

WV Soil Conservation Agency
www.wvsca.org

WV Division of Forestry
www.wvforestry.org

SOLUTIONS TO ACTIVITIES





1. Air pollution from factory
2. Fire left burning around wood
3. Trash can has been turned over
4. Water pollution coming from pipe
5. Graffiti on the rock
6. Can floating down stream
7. Illegally dumped tire

Some Clipart provided by Discoveryschool.com.

West Virginia

Make It Shine

Bob Wise
Governor

Ed Hamrick
Director

Emily Fleming
Chief

For more information on
West Virginia Environmental Education
304-558-3370