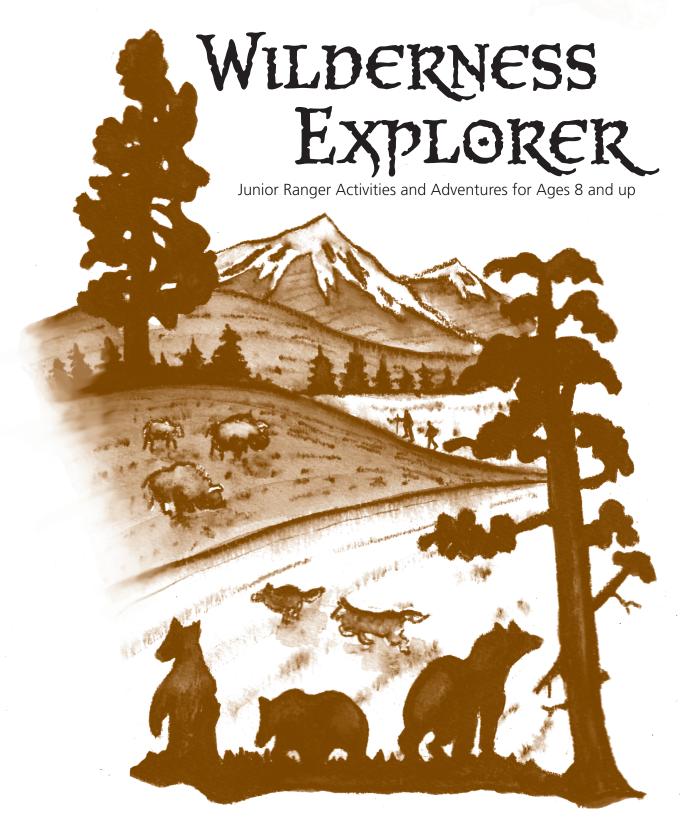






U.S. Fish and Wildlife Service
U.S. Department of the Interior



WELCOME TO WILDERNESS

This activity booklet is designed for exploring wilderness, either at a federally-designated Wilderness Area you are visiting, a Wilderness Area you would like to visit, or a wild place near your home. Activities are geared for ages 8 and up, so look for the bear paw and choose the activities that are right for you.





Ask a Wilderness Ranger! As you explore, you may find it helpful to ask for help. You and an adult can also look for information on the internet. Here are five great websites to learn more about wilderness:

• Wilderness Connect www.wilderness.net

• Bureau of Land Management www.blm.gov/programs/national-conservation-lands/wilderness

Forest Service www.fs.fed.us/managing-land/wilderness

• National Park Service www.nps.gov/wilderness

• U.S. Fish and Wildlife Service www.fws.gov/refuges/whm/wilderness.html

Answers to many of the activities and questions can be found on page 21.

SPECIAL PLACES

Draw or describe a place that is SPECIAL to you in this space.

What might be SPECIAL about a place that is WILD? Draw or describe it here.

What does the word WILD make you think of? Draw or describe it here.



PEOPLE AND WILDERNESS IDEAS

Ask 3 people what they think "wilderness" is. Record their responses here. 1. Person interviewed: _____ Wilderness is... Example: A. a home for wild animals B. a quiet place to think C. a place to be free D. your idea 2. Person interviewed: _____ Wilderness is... 3. Person interviewed (could be a wilderness volunteer or ranger): Wilderness is...

TWO KINDS OF WILDERNESS 💥





There are two kinds of wilderness. One kind of wilderness can be any natural area near you - wild places like a grassy hill, pond, river, or beach. The second kind of wilderness is described in the 1964 Wilderness Act and these places are called "Wilderness Areas" - lands and waters on federal public land that are protected.

Complete the following description to learn more about the federally-designated Wilderness Areas referenced above, by using these words to fill in the blanks:

	will	controlled	free	nature	cut	changed	
trees are i	not	nature follows its The riversity was before mode	ers run		without d		
Native An separate i		ures believe that a	all land oug	ht to be respect	ted, and m	nay not view wilde	erness as a
What do or pictur		ess mean to you	? Use the s	space below to	o capture	your ideas with	words and

WIŁDEBNESS SAFETY

Wilderness Explorers need to know how to be safe when they're exploring the wilderness. Being safe in wilderness begins before you start your trip.



- Always go with another person.
- Check the weather and conditions for the area you are visiting.
- Tell someone who is staying behind exactly where you are going and when you plan to return.
- 1. There are "10 essentials" you and your adult should have with you to be safe and prepared for emergencies. A box is drawn around each essential item. Write the name of each item on the list.
- 2. What else would you like to bring? Circle the items below. Don't make your pack too heavy!





WHERE IS WILDERNESS?

There are 765 federally-designated Wilderness Areas protecting more than 110 million acres of public land, managed by the Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, and U.S. Forest Service.

Draw or name something you would find in a Wilderness Area in Alaska.

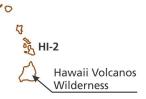


Using the map at the right, find the answers:

- 1. Which Wilderness Area is closest to you?
- 2. Which Wilderness Area is furthest from you?
- 3. Which state has the greatest number of Wilderness Areas?
- 4. Six states have no Wilderness Areas. Name them here:

Draw or name something you would find in a Wilderness Area in Hawaii.

Ask a Wilderness Ranger (or visit wilderness.net): How big is the Wilderness Area nearest you?



ARE WE THERE YET?



Put an X on the Black Rock Desert Wilderness and the Gulf Islands Wilderness.

- 5. Using the ruler below (cut it out if needed), estimate the distance between the two Wilderness Areas: _____miles.
- 6. Suppose that you and your family could drive from one to the other at 60 miles per hour (mph). How long would it take to get there?

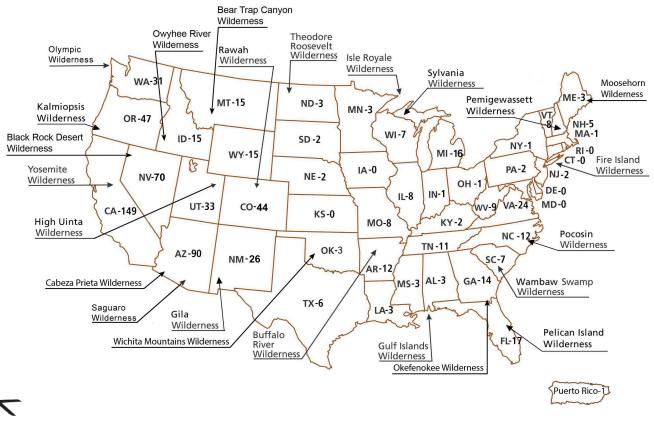
Hint: distance ____(miles) ÷ speed _____ (mph) = time _____(hours).

- 7. What might you find that is different between the two Wilderness Areas?
- 8. Which Wilderness Area named below is closest to:

New York City? ______Phoenix?

New Orleans?

The names on the map below are just a few of the Wilderness Areas in the United States. (The number is the total number of Wilderness Areas in that state)



WHO WAS HERE BEFORE?



Look around a Wilderness Area or other natural area you think of as wild and consider these questions (ask a Wilderness Ranger (or check the internet) for help):



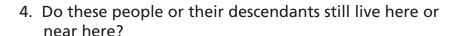
1. What people lived here before the Europeans came?



2. Did these people live in villages or did they move their homes to follow and hunt animals? Draw a picture of where they might have lived below:



3. What things might these people have eaten (such as roots, berries, buffalo)? List or draw a picture below:

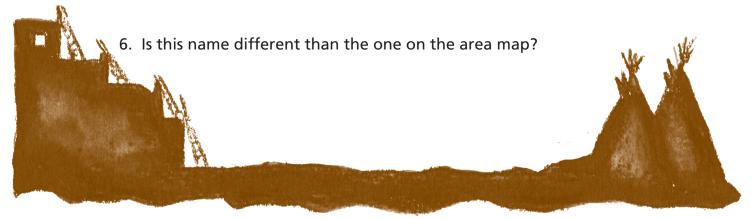


Important: If you find any arrowheads, pieces of pottery, or other old objects be sure to leave them where you found them so that archaeologists can reconstruct history!



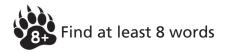
Answer the first four questions, plus:

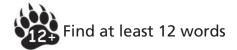
5. Did these people have names for any of the natural features such as mountains, rivers, or valleys? Write down the name of one of the features here:



WILDERNESS WORD SEARCH

Words may be horizontal, vertical, or diagonal - left to right





BACKPACKING CONTRAST FREE FUTURE HIKING HORSEBACK NATURAL
PHOTOGRAPHING
PRESERVE
PRIMITIVE
QUIET
RECREATION

RESEARCH SCENERY SOLITUDE SPIRITUAL UNCONFINED UNDEVELOPED UNIQUE UNSPOILED UNTRAMMELED VIEWS WATERSHED WILD

LEAVE NO TRACE

How can you be a responsible Wilderness Explorer? The Seven Principles of Leave No Trace are a good starting place:

- 1. Plan ahead and prepare
- 2. Travel and camp on durable surfaces
- 3. Dispose of waste properly
- 4. Leave what you find
- 5. Minimize campfire impacts
- 6. Respect wildlife
- 7. Be considerate of other visitors

Have you ever heard the phrase "Leave only footprints...take only photographs?"

Even a footprint can leave an impact. Please be thoughtful of where you step.

Go through the maze on the next page and apply these principles.

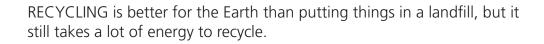
Help Leave No Trace on your public lands!



Pick up three pieces of litter and put them in the trash.



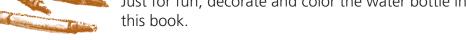
Pick up a bag of litter. Separate and recycle as many items as possible. Put the remainder in the trash.



REUSE is even better for the Earth. Refill you water bottle and conserve the Earth's resources.



Just for fun, decorate and color the water bottle in

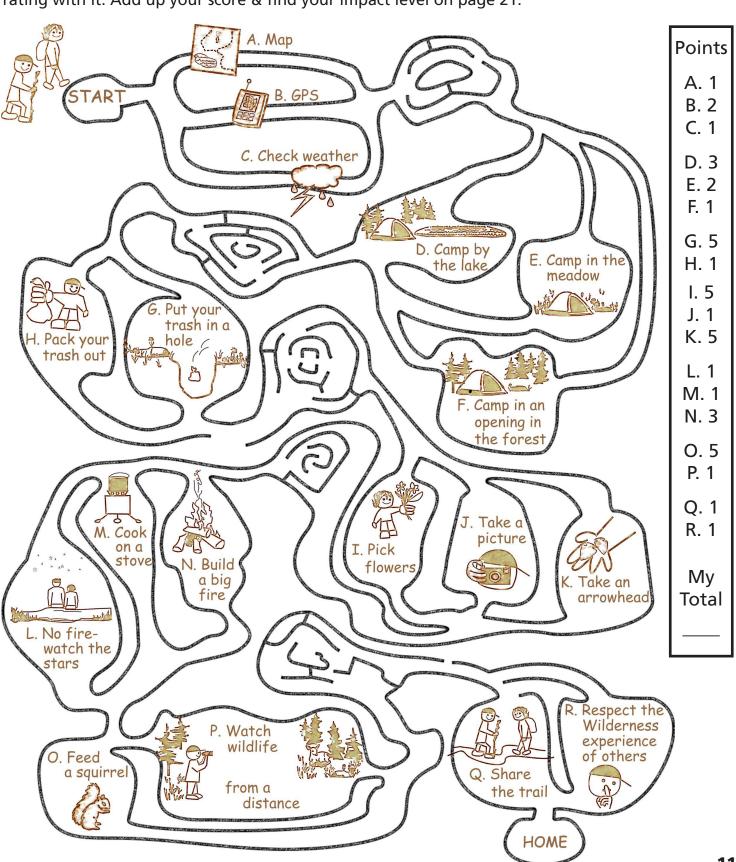




OOR ETH

LEAVE NO TRACE MAZE

These Wilderness Explorers are about to go on a trip through a Wilderness Area. Help them make the best choices about where to go and what to do along the way. Each stop has a numerical rating with it. Add up your score & find your impact level on page 21.



BE A SCIENTIST

Wilderness Areas can be places where scientists can go to understand plants, animals, and landscapes that are in a more natural state, less affected by human activities.

As a scientist, you will ask a question, make a prediction (called a hypothesis), and test your hypothesis by observing the thing you asked a question about.

1. Go outside and find a plant or animal to observe. Describe it here with words and/or pictures:

2. Come up with a question about it. For example, what does this bird eat? Does this plant prefer to live in dry soil or wet?

3. Make a hypothesis. This is an "educated guess" about the answer to your question. For example, I think that the bird eats ..."

4. Think about and describe how you could test your hypothesis. If it is possible to test the hypothesis by making observations, then do so. If not, think about what kinds of observations you can make. For example, "I will observe the bird and see what it eats..."



BE A SCIENTIST

5. V	Vrite	down	vour	obser	vations	here.
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6. Do you think the animal or plant you observed was affected by people being nearby? If so, how?



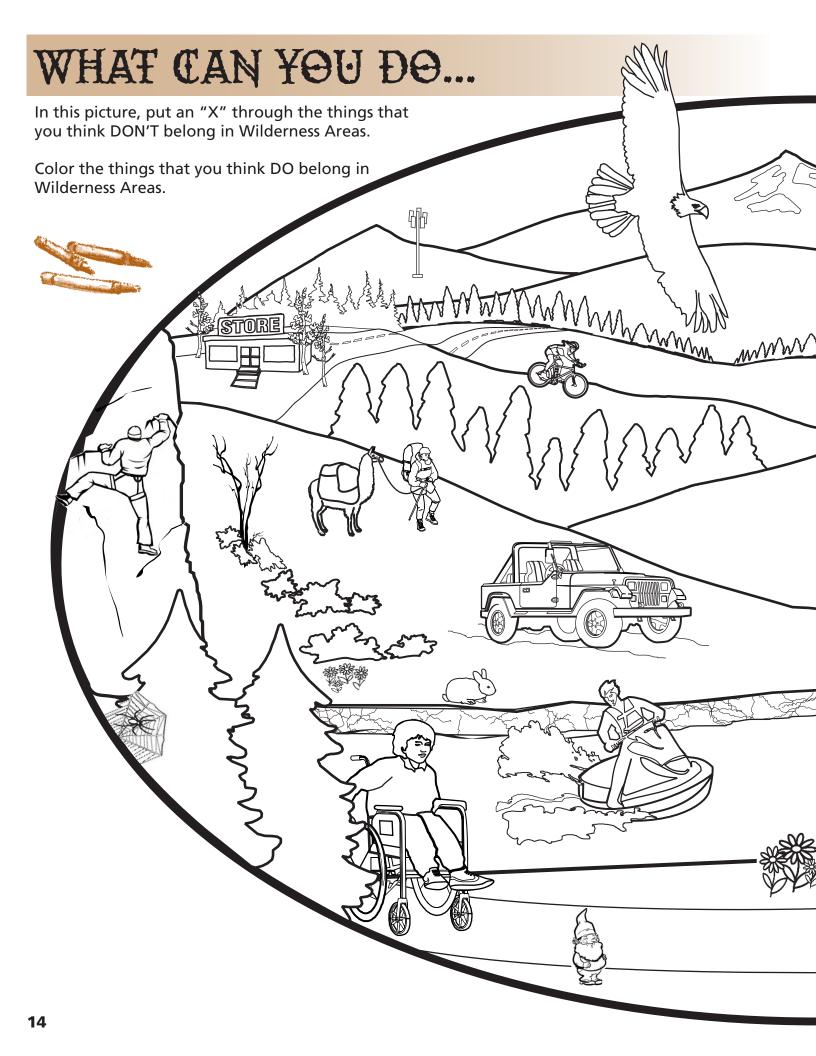
Complete the six previous questions, plus...

Ask a Wilderness Ranger (or check the internet):

7. What kinds of research are going on in the wilderness you are visiting or studying?

8. Develop a hypothesis that would best be tested both inside and outside of wilderness. Why would it be important to compare observations inside and outside of wilderness?





IN WIŁDEBNESS ABEAS?





WIŁDERNESS ADVENTURE

The best way to learn about wilderness is to get out and explore it! Find out where the nearest Wilderness Area is, and go explore with your family. If you are unable to go to a Wilderness Area, find a place that is away from developments (like roads and buildings). Make sure you complete the "Wilderness Safety" activity before you head out.

Use ALL of your senses. Find a quiet place to sit for five minutes - describe in words or pictures what you:

See

Hear

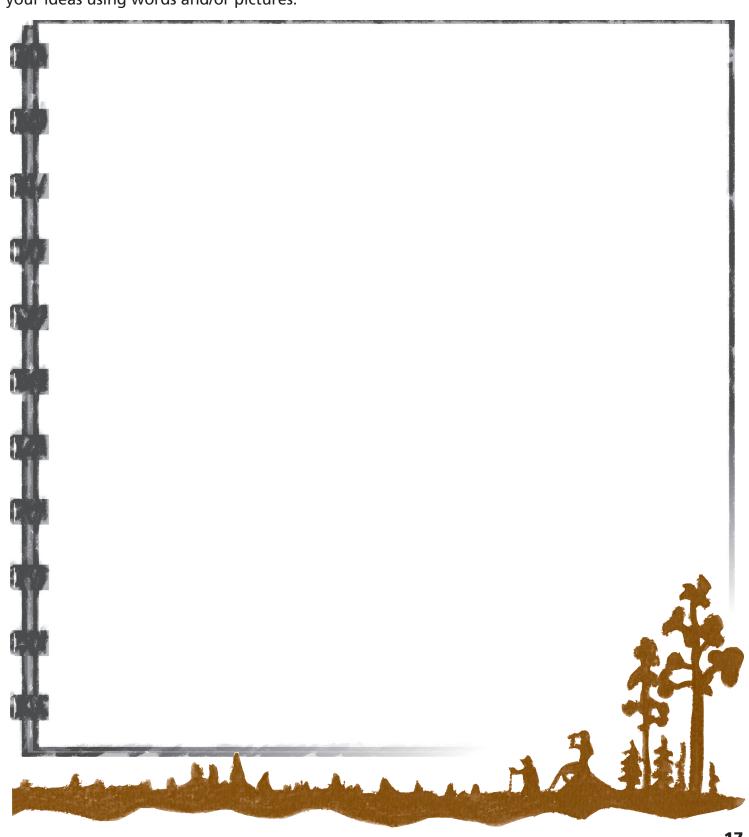
Smell

Feel



WIŁDERNESS ADVENTURE

When you get back home, think about what you would tell a friend about your wilderness experience. Be creative! You can write a story or poem, draw a picture, or perhaps make up a song or play. Your notes from page 16 may help you get started. Use the space below to organize your ideas using words and/or pictures.



WIŁD WOBDS

Wander through time and history to explore the idea of wilderness by reading the information in the timetable below.

DATES	HISTORICAL EVENTS	WILDERNESS QUOTES
1607	Jamestown, Virginia settled	"Wilderness is a damp and drea <u>r</u> y place where all manner of wild beasts dash about uncooked!" - Anonymous, 1600
1803 1806	Louisiana Purchase Lewis and Clark Expedition returns	"There is a pleasure in the pathless woods. There is a rapture on the lonely shore. There is society where <u>n</u> one intrudes. By the deep sea, and music in its roar: I love not man the less, but Nature more"
		- Lord Byron, British Poet, 1816
1893	Professory Frederick Jackson Turner states that the	"Thousands of tired, over-civilized people are beginning to find that going to the mount <u>a</u> ins is going home; that wilderness is a necessity"
	American frontier is closed.	- John Muir, naturalist and co-founder of the Sierra Club, 1901
1930- 1945	Major road and dam construction in the American West, including Hoover Dam and Grand Coulee Dam.	"Wilderness is melting away like some last snowbank on some south facing mountainside during a hot afternoon in June. The momentum of our blows is so unprecedented that the remaining remnant of wilderness will be pounded into road-dust long before we find out its values." - Bob Marshall, co-founder of The Wilderness Society, 1937
1955	Development of Echo Park Dam at Dinosaur National Monument is defeated.	"Against pressures for economic or recreation development, it is claimed, the efforts for preservation cannot be justified by the relative few who use wilderness regions."
		- Dr. James P. Gilligan, Forester, 1954
1962	Scientist Rachel Carson publishes <i>Silent Spring</i> , stirring public consciousness about pesticides and the environment.	"The wilderness that has come to us from the eternity of the past we have the boldness to project into the eternity of the future." - Howard Zahnizer, principal author of the Wilderness Act, 1964
1964	President Lyndon Johnson signs the Wilderness Act. Several U.S. Forest Service Wilderness Areas are designated at this time.	"If future generations are to remember us with gratitude rather than contempt, we must leave them something more than the <u>m</u> iracles of technology. We must leave them a glimpse of the world as it was in the beginning, not just after we got through with it."
		- Lyndon Johnson, 1964
1968	The Great Swamp National Wildlife Refuge Wilderness becomes the first U.S. Fish and Wildlife Service designated wilderness.	"In wild <u>e</u> rness I sense the miracle of life" - Charles Lindbergh, American aviator, 1967

WIŁD WOBDS

DATES	HISTORICAL EVENTS	WILDERNESS QUOTES					
1970	The Craters of the Moon Wilderness and Petrified Forest Wilderness become the first National Park Service designated Wilderness Areas.	"We have forgotten how to be good guests, how to walk lightly on the earth as its other creatures do." - Barbara Ward, 1972					
1983	The Lee Metcalf Wilderness becomes the first Bureau of Land Management designated wilderness.	"I hope the United States of America is not so rich tha <u>t</u> she can afford to let these wildernesses pass by, or so poor she cannot afford to keep them." - Margaret (Mardy) Murie, Conservationist, 1980					
2014	50th anniversary of the Wilderness Act						



	 Wild Word Scramble: write them here: 	Find the one bold and underlined letter in each quote, and
		ers to form a special word in The Wilderness Act The Wilderness Act on page 4).
\ .		



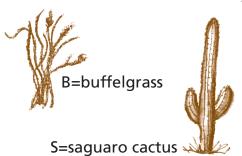
2. What significant event in the history of wilderness occurred in 1964?

3. How do you think society's thoughts about wilderness have changed over time?

BAIDERS OF THE WILD

Many plants and animals have been moved from one side of the world to another for food, farming, hunting, and sometimes by accident (like hitching a ride on a boat). Some times these plants and animals (called "invasive") escape and have big effects on natural systems and change wild places.

An example is buffelgrass, a South African plant that is invading the Saguaro Wilderness. Buffelgrass easily catches fire. It pushes out the native plants including saguaro cacti. An area of buffelgrass can double every year.



1. Use the table below to calculate how many years it would take for buffelgrass to push out saguaro cacti in this simplified model of the ecosystem. In year 1, buffelgrass occupies one square (B) and the rest are occupied by saguaros (S). In year two, put a B in two times as many squares, and put an S in remaining squares. Continue to double the amount of buffelgrass each year. In what year is there no more room for saguaro cacti? ______

Year 1	В	S	S	S	s	s	S	S	S	S	S	S	s	s	s	S
Year 2																
Year 3																
Year 4																
Year 5																
Year 6																
Year 7																

2. Why does this matter?



ANSWER KEY

For these activities, there is no	"right" answer. Check t	he ones you have completed.
Page 2, Special Places Page 3, People and Wilderness Idea Page 4, What is Wilderness? Page 8, Who Was Here Before?	Page	e 10, Leave No Trace Litter Pick-up e 12-13, Be a Scientist e 16-17, Wilderness Adventure es 22-23, Wild Windows
Page 4, Two Kinds of Wilde will, controlled, free, nature, changed,	<u>erness</u>	Page 9, Wild Word Search WHOKEZBELLOWPYRVNSUEHERCT SNOUHPHOTOGRAPHINGS RW
Page 5, Wilderness Safety 1. Ten Essentials 1. Map of the area 2. Compass 3. Flashlight 4. Extra food, such as energy bar 5. Extra clothing, including rain gear 6. Sunglasses and sunscreen 7. Matches, waterproof container, fire starter 8. Pocket knife 9. First aid kit 10. Water	2. What Else to Bring Things you might want to leave at home: TV, hair dryer, toaster, boombox, high heeled shoes. Note: It's OK to bring a cell phone or a GPS, but do not rely on these devices for safety. There may not be coverage and/or batteries may run down.	RAHCLE PILVDOS VRUZ FYRE GSKPEJYODA SBLNNPRIMITIVE ND TON H SX CNVB NAGWUIC GPEXSLAVRLOF EAHTLRT CPEDORK WOOPQUIET AD GRJEYF KNAFDIRESPLASTVP RULAWOBESJOBSHNBTAEOGEUULC CMKSLPAHUNTRAMMELEDHJRDOS HTRTOFRKDILFFCAYRUNIQUETH SVNKIPACTHUTEGKXWPFSARNK WATERSHEDEPAUNSPOILEDEFCB RYEGCDTOFMKBSGRMAULCYAPZ TAHNWELNSSGRTAAULCYAPZ TAHNWELNSSGRTAAULCYAPZ TAHNWELNSSGRTAAULCYAPZ TAHNWELNSSGRTAAULCYAPZ TAHNWELNSSGRTATSKRAPJILZEMC DACHTKZBYBUGNULOWAYRNSKDE LWUSVNPRESERVEHSMDKINGFHN RIBELGEJKITBATONEN
1 and 2. It depends upon which state your 3. California—149 4. CT, DE, IA, KS, MD, RI Other questions—many answers	ou pick.	Pages 18-19, Wild Words 1. UNTRAMMELED 2. President Lyndon Johnson signed The Wilderness Act. Other question—many answers
Page 7, Are We There Yet? 5. 1600 miles ÷60 mph = ~27 hours 6. Answers vary 7. New York City—Fire Island Wilderness Phoenix—Saguaro Wilderness New Orleans—Gulf Islands Wilderness	5	Pages 14-16, What Can You Do in Wilderness? Everything in the picture belongs, except: road, store, jeep, all-terrain vehicle (ATV), cell tower, power line, jet ski and the mountain bike. To learn why, check the definition of Wilderness on page 4. If this is a mountain forest, the palm tree does not belong. The garden gnome? Now that's just
Page 11, Leave No Trace M	<u>laze</u>	silly.
What was your score? 7—GREAT JOB! You are working towar 8 to 12—Not bad, but please take care. 12 or more—Lighten up, you are leaving If you got a 5 on any action—YIKES! You	g impacts.	Pages 20, Raiders of the Wild 1. The buffelgrass replaces all of the saguaro cacti in year 5. 2. Why does it matter? Loss of habitat, loss of saguaro ecosystem, fire danger increases.

Other question—many answers

Check your answer. Ask a ranger if you have any questions.

WIŁD WINDOWS 🕸

Make a window frame by following the directions on the next page. Now go outside.



- 1. Use the window to frame a view where you can see things made by people, such as a road or a building. Draw or describe the view in box # 1 below.
- 2. Use the window to frame a view where you can't see anything made by people. Draw or describe the view in box # 2 below.



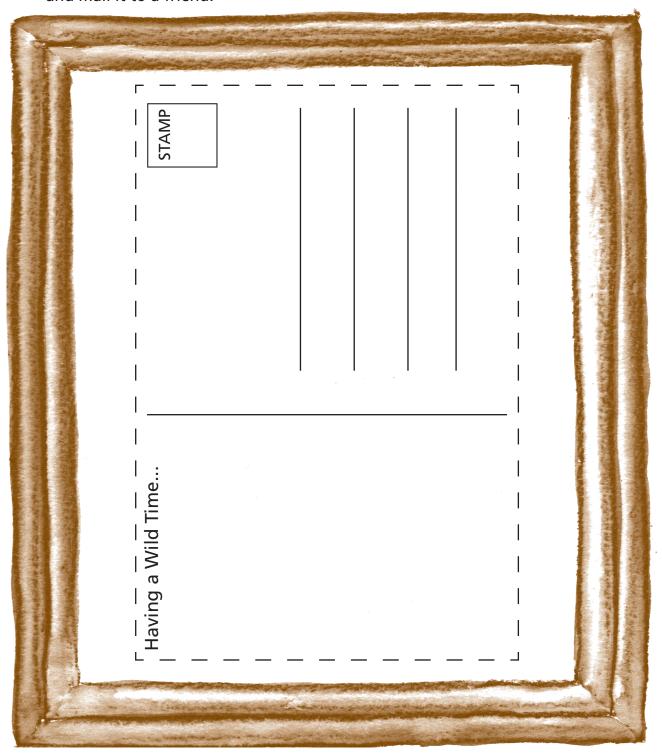
2

- 3. In which window do you think you would be more likely to see wildlife?
- 4. What did you like in each window? What did you not like?

WIŁD WINDOWS

Cut or tear out this post card along the dotted lines.

- Use this page with the hole as a frame for the activity on page 22.
- Save the post card—draw a picture on the other side about your wilderness visit and mail it to a friend.











This booklet is available for download at www.wilderness.net



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