

What is worse than finding a worm in an apple? (uwom e fjar burpupf)

An apple a day may keep the doctor away. A recent MSU study showed that people who ate apples had fewer respiratory infections.

Or learn more about Michigan Apples visit: www.MichiganApple.com or read: *The Life and Times of the Apple*, Orchard Books, 1992.

Fall is... Harvest Time



Fall is... the season for visiting a cider mill and going back to school... when animals begin to gather and store food... when birds and waterfowl gather for the long migration south and the loud honking of geese can be heard overhead.

Fall is also **harvest time**, and is celebrated with fanfare around the world. Many customs and traditions surround this time of year as people give thanks for a good harvest.

Citizens in the **East African country of Ghana** give thanks by beating drums, dancing and feasting. African harvest celebrations like this have inspired the **African-American** observance of **Kwanza**, a seven-day celebration of family, heritage and community.

Canada observes its Thanksgiving Day on the second Monday in October. **Germany's** Oktoberfest celebrates the crops of hops and barley. In **China**, a Harvest Moon Festival is held near the end of September and special treats called mooncakes are served.

Long before new settlers arrived in **America**, Native Americans held celebrations in honor of nature's bounty. One of the oldest and most popular harvest celebrations is our **American Thanksgiving**. It was first celebrated by the **Pilgrims** and **Native Americans** to give thanks for a good harvest.

Fall and the harvest season remind us to appreciate and give thanks for the wonderful gifts that nature provides in the great State of **Michigan**, across the **country** and around **world!**



What animal are you most like when you take a bath? (a little bear)

Some animals **hibernate** in winter. Chipmunks, skunks, bats and woodchucks are **true hibernators**, bears are not. Bears are **deep sleepers**. On warm winter days, they often get up and wander around.

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Outdoor EXPLORERS CLUB

FALL, THE SEASON WHEN LEAVES SHOW THEIR TRUE COLORS. During summer, a pigment called **chlorophyll** gives leaves their green color. The **chlorophyll** disguises the leaves' natural color. In fall, as days get shorter and temperatures are cooler, the **chlorophyll** in **deciduous** leaves starts to break down. The leaves can no longer make food for the tree. The green pigment disappears, and the true yellow, orange, red and brown colors of the leaves can be seen.

FALL MEANS MICHIGAN APPLES...

Michigan ranks 3rd in the U.S. for **apple** production. A trip to the apple orchard is a fun, fall outdoor adventure. **October is also pizza month!** Why not celebrate by making **Greta and Grady's** favorite pizza, next to pepperoni...



Michigan Apple Pizza

- 1 tube sugar cookie dough
- Apples, unpeeled and sliced thin:
- 2 of each: **Granny Smith** and **Red Delicious** - 1/2 tsp. cinnamon - 2 Tbs. each sugar and melted butter - 1/4 tsp. each nutmeg and cloves - **Slice** cookie dough and press into a 14" pizza pan.
- Arrange** apples on top in a circle, alternating colors. **Combine** sugar and spices. **Sprinkle** over apples. **Drizzle** with butter.
- Bake** at 425° for 20-25 minutes.

Enjoy!

Hey, Abigail and Antonio, let's play!



This **wood** will make a nice warm fire on cold winter nights. Like the animals, we prepare for winter by **gathering** and **harvesting** nature's resources. Like the animals, it is important that we take only what we can use and use our resources wisely.



Hi, **Buck Wilder!** Would you like to share my nice, juicy carrots?



COMING SOON TO A SCHOOL NEAR YOU... Are you a **fourth grader** or do you know someone who is? Watch for the **DNR's Great STATE, Great PARKS, Great HISTORY** program coming to... **4th grade classrooms this fall!**

The Grasshopper and the Ant, to learn more about the importance of gathering and planning for the future.

Do **L.A.P.'s** For Michigan! Learn from the past, Appreciate the present, Preserve our outdoor heritage.



For thousands of years, people have **hunted, fished, gathered** and **harvested** to meet their daily needs. Animals provided food, clothing and shelter and many people still hunt today. For many friends and families, hunting seasons are times to appreciate nature, renew friendships, build family ties and maintain family traditions.



WHAT IS... CARRYING CAPACITY?

Every **habitat** has what is called a... **carrying capacity**. Carrying capacity is the number of plants and animals of each **species** that can live in a given **habitat**. For example, one habitat may only have enough food to feed 20 squirrels and 18 deer. If the numbers of these animals increase, there is not enough food to go around and many die of **starvation**. A managed hunting season is **one way** we can control animal **overpopulation**, instead of allowing animals to die a painful death of starvation.



Photographs by David Kenyon, DNR Photographer

Geese fly in a **V-formation**. The lead goose helps reduce **air resistance** for those birds flying behind. The geese take turns being the leader.

Michigan has about one million hunters and fur harvesters. Each year 800,000 hunters, hunt deer in Michigan, bringing in millions of dollars to our State's economy.

Why do birds fly south for the winter? (they're far too fat to walk)

Written by Edna Cucksey Stephens

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Illustrated by Mark J. Herrick

Harvest Game Answer: First, pick up the apple, then, pick up the ear of corn, go around the corner past the Recycle Stand to pick up the grapes, drop off the apple at the Apple Stand, go down to the barrels and make a right. Pick up the pumpkin, drop off the corn at the Corn Stand and pick up the beans. Go by the big milk can. Drop off the grapes at the Grapes Stand. Drop off the beans at the Beans Stand and then drop off the pumpkin at the Pumpkin Stand. Hooray, you did it! Celebrate by eating a Michigan apple!!!

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Do you see a man in the moon?

Some people do, but it is said that the Ojibwa people see a boy taking two buckets of water and the Japanese see a rabbit.

Harvest an... Outdoor EXPLORERS ADVENTURE

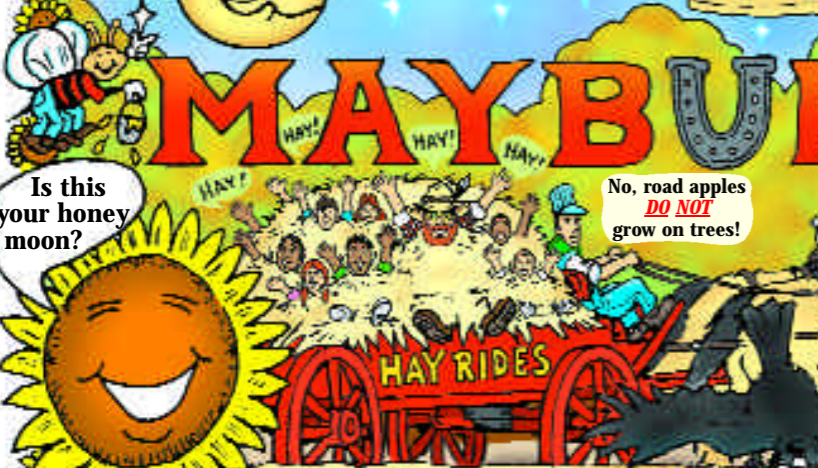
Check the library for this great book about growing up on a farm: *Cracked Corn and Snow Ice Cream*, Harcourt Brace & Company, 1997.



Watch for the harvest moon on September 25th! The harvest moon is the full moon that occurs closest to the fall equinox, a time when days and nights are almost equal in length. Its light shines so brightly that farmers have been able to harvest their crops by moonlight.

September is honey month. Honey is the oldest sweetener known to man! To find out more about bees and honey... visit: www.xsensi.com or read: *A Beekeeper's Year*, Little Brown and Co., 1994.

What do you say to a nasty bee? ("Buzz Off!")



Is this your honey moon?

No, road apples **DO NOT** grow on trees!

Near Northville, about eight miles from Detroit, as the crow flies, you will find **Maybury State Park** and its living farm. Here, you can experience farm life as it was in the early 1900's when most of the people in Michigan made their living by farming. You can meet some awesome animals like pigs, turkeys, sheep, goats, cows, rabbits and horses, but not necessarily all at the same time. If you visit at chore time, after 4:30 p.m., you might see cows and goats being **milked** and even try milking a goat yourself. (No **kidding**! Get it?) You can see the sights and sniff the smells (some good, some not so good) of a real working farm. You might see hogs being **slopped** and smell freshly cut hay. **Maybury Farm** is open year-round and depending on the time of year, you could see sheep being **sheared**, honey being **harvested** or enjoy a hayride through farm fields to pick out a Christmas tree.

FALL IS HARVEST TIME.

Join the farm staff and volunteers at Maybury as they celebrate the fall harvest at the... **8th Annual Harvest Festival, October 10, 1999.** You'll enjoy the demonstrations, hands-on activities and game area where you can try to find your way through a tricky hay maze. It's a...**mazing** fun! Fall is also time for most kids' second favorite holiday, **Halloween!** What's their most favorite? If you don't know, you may not get any presents! (Just kidding!) Getting back to Halloween... October is a great time to **go camping**. Several of our State Parks have...

Halloween Campout Weekends in October. For more information, visit our website at... dnr.state.mi.us or call 517-373-9900.



Cornucopia is my real name!

The largest pumpkin on record weighed **827 pounds.**

Scarecrows are as old as farming itself. Their job was important because families could starve if animals or birds ate the crops.

His hat is... really **SCARY!**

Visit Maybury in the spring for maple syrup time.

LET'S HAVE A BARN-DANCE! I HAVE ALWAYS WANTED TO LEARN THE BUNNY HOP!

Would you rather **pig-out** or **veg-out**?

Fishing is fun at Maybury!

IN THE **MOOOO**D FOR A QUICK, TASTY SNACK? **TRY THIS! HEN AND JERRY'S ICE CREAM IN A BAG!**

You will need:

- 2 Tbs. sugar
- 1 cup milk or half and half
- 1/2 tsp. vanilla
- 6 Tbs. rock salt
- 1 pint-size plastic zip bag
- 1 gallon-size plastic zip bag

How to make it:

1. Fill the gallon-size bag half full with ice. Add rock salt and seal.
2. Pour sugar, milk or half and half and vanilla into the pint-size bag and seal.
3. Place the pint bag into the gallon-size bag and seal.
4. Shake the bag for 5-7 minutes.
5. Open the small zip bag and enjoy!

Try these variations:

Add one of the following:

- A dash of cinnamon.
- 1/2 tsp. peppermint flavoring
- One Tb. chocolate syrup
- Top with sprinkles, nuts or fresh fruit.

Instead of chicken soup, make your own **EGGcellent** ice cream!

PLAY THE MICHIGAN HARVEST GAME!

HELP ANTONIO ANT... He must pick up these Michigan Farm Products... a bunch of grapes, an ear of corn, a pumpkin, an apple, and some beans.

He must drop off each at the correct roadside stand. (For example, when he picks up the corn he must deliver it to the corn stand.)

THE OBJECT: Find the shortest route without taking the same path twice. Begin at **start** and end at **finish**. (HINT: Antonio can pick up more than one product in his L.A.P.'s wheelbarrow.) Wheel over to the other side for the answer. **Don't peek, until you give it a try.**

Michigan ranks **5th or higher** in U.S. production of more than 20 food crops.

Farming... is very important to our daily life.

Michigan's **climate, weather** and **soil** make it a good place to grow many crops.

Hey, Forrest, are you in the **moood** for some **math** about milk?

Look for the answer on this page. It's okay to use a calculator.

Milking a cow is **udderly** awesome!

Milking A Cow By Hand... There are about 340 squirts in one gallon of milk. About how many squirts would it take to fill an 8 oz. glass?

What do you get when you drop a pumpkin? (squash)

Michigan is a top producer of cherries, blueberries, apples, grapes and peaches. **Create a Michigan Fruit Scratch and Sniff Watercolor Painting!**

You will need:

- 1 Tb. unsweetened powdered drink mix
- 1 Tb. warm water
- muffin tin

How to make it:

- Mix water and drink mix in a section of the muffin tin. Repeat this step with different flavors of drink mix to create paint colors. Now, paint your picture! **Allow to dry overnight** before scratching and sniffing.

Why are barns so noisy? (The cows have horns.)

Only six states produce more milk than Michigan.

What kind of beans don't grow in a garden? (felly beans)

To find out more about Michigan farm products log on to: www.nda.state.mi.us

Math Milk Answer: There are 128 oz. in a gallon. Divide 340 squirts by 128 to find out how many squirts in one oz. = 2.66. Multiply 2.66x8 to find the number of squirts in 8 oz. = 21.25 (about 21 squirts in an 8 oz. glass)

What goes "oom, oom"? (sprawpqp bnt6b mow A)