

Cicada BROOD IX TIME CAPSULE

Record during the 2020 emergence • Open at the next emergence in 2037

Have you heard of Brood IX (9)? Brood IX is a group of periodical cicadas – insects that appear only once every 17 years in southwestern Virginia. Last seen in 2003, these amazing insects will emerge from the soil this spring to make their 2020 debut. Then, after less than two months above ground, they will disappear into the soil for another 17 years.



Celebrate this unique event by creating a TIME CAPSULE!!

- Use this booklet to record facts about yourself, the world in 2020, and cicada Brood IX.
 - Seal everything inside a shoe box or other container.
- Open your time capsule in 2037 when Brood IX emerges again and see how things have changed.

For more information visit: ento.vt.edu and hokiebugfest.org or



Special thanks
to WDBJ7!



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FUN FACTS About You

Name _____

Age/Grade _____

Height _____

Weight _____

Shoe size _____

Address _____

Describe your room _____

Self Portrait

Did you know...
Cicadas are white to cream
colored when they shed
their "exoskeletons"?
They darken as they
harden.

FUN FACTS About Brood IX

Common name: Periodical cicada, Brood IX (includes 3 species)

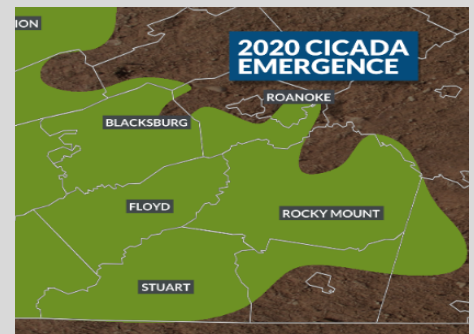
Scientific names: *Magicicada septendecim*,
Magicicada cassini, and *Magicicada septendecula*

Age: 17 years

Height (length): 1 to 1 $\frac{1}{2}$ inches

Address: Southwestern VA and parts of WV and NC

A cicada's "room": Periodical cicadas spend most of their
lives 18-24 inches deep in the soil near roots of woody plants.



Brent Watts, WDBJ7

Periodical cicadas are found only in eastern North America and can have either 13- or 17-year life cycles. Periodical cicadas that are in the same stage of development, and that emerge together in a given region during the same year, are known as a single "brood." Each brood is designated by a Roman numeral. Brood IX, or brood 9, are the 17-year cicadas we see in southwestern Virginia.

Your Favorites

Food _____ Color _____

Friend _____ Teacher _____

School subject _____ Pet _____

Movie _____ TV show _____

Song _____ Activity _____

Family tradition _____

Online game _____ App _____

Form of communication _____

Brood IX FAVORITES

Food: When underground, cicadas suck nutrients from the roots of woody plants. This feeding does not commonly harm plants.

Family tradition: Every 17 years, when soils warm to 64°F or more, they emerge from the soil.

Form of communication: Males use special organs called "tymbals" to produce a loud sound to attract females. When many males "sing" together, the sound can exceed 100 decibels.

Activity: Shortly after coming above ground, females cut tiny slits in the stems of trees and woody shrubs where they will lay their eggs. When the eggs hatch, the immature cicadas, called "nymphs," will burrow into the soil. After 17 years underground, the nymphs will emerge from the soil, shed their "exoskeletons" (outer shells) to become adults, and start the process anew.



Life in 2020

Price of:

Gallon of gas _____

Gallon of milk _____

Loaf of bread _____

Stamp _____

U.S. President _____

Current events _____

What type of phone do you or your parents have?

Live and in concert
every night for the
next several weeks, it's
THE CICADAS!



I hear they
are no longer
an
underground
band.

Fun things to add to your time capsule!

- Newspaper clippings
- Family photo
- Postage stamp



Cicada Brood IX

Date they emerged _____

Location found _____

How many did you count? _____

Did you hold one? _____

Did you find one with blue eyes? _____

Special memories _____



cicadamania.com

Fun things to add to your time capsule!

- Photos of the cicadas
- Photo of you holding a cicada
- Recording of the cicadas' song
- Photo of a tree under which you found cicadas

Did you know...
When a cicada emerges from the soil, it sheds its "exoskeleton" to change from a nymph to an adult? Cicadas leave these "shells" on vertical surfaces. How many can you collect?

Cicada Portrait

PREDICTIONS

What do you think life will be like when Brood IX emerges again in 17 years!

What year will it be? _____ How old will you be? _____

Where will you be living? _____

What job will you have? _____

Will you be married? _____

Will you have children? _____ If so, how many? _____

What new invention will there be? _____

Draw yourself 17 years older

Write a letter to your future self