



**CHESTNUT CHAT – Q & A**  
**CHAT 09: POLLINATION WORKSHOP**  
**DATE: FRIDAY, JULY 10, 2020**

QUESTION	ASKER NAME	ANSWER(S)
I have a single American Chestnut Tree that's flowering now. I need to get pollen to get cheB7:E20too late to do this? I live in Boxford Massachusetts. 978-994-0884 - Marty	Marty	
please go over how to save pollen for long periods of time	Anonymous Attendee	live answered
is there a list of what will be needed to even get to the point pollinating.	RobertNClark	There is a great list of resources and various instructions here: <a href="https://ecosystems.psu.edu/research/chestnut/breeding/pollination">https://ecosystems.psu.edu/research/chestnut/breeding/pollination</a> and this workshop will be available to re-visit. Imagine the video Hannah mentioned will also be made available.
is anyone else not seeing the q/a questions being displayed, or don't they display until the recording starts??	Jim English, NYS Chapter	The Q&A will update as folks ask questions : )
This is Jules. Did it come through?	The American Chestnut Foundation	Hi Jules : ) Think we're good to go!
What is the soonest after pollination that you can determine if a flower is fertilized?	Tom Klak	live answered
have you crossed 58 with acf b3f3 and is it more resistant	Anonymous Attendee	We have crossed a B3F3 mother tree with a Darling 58, and have a couple dozen offspring trees growing in our research orchards. I don't think we have good data yet on resistance tests, and we may need a larger sample to pick up subtle differences beyond the good blight tolerance provided by the OxO gene.



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This may be a dumb question, but are all viewers automatically muted? Wanna know if I can grind my coffee while this is happening. ;)	ACM	All participants are muted. Grind away!
I don't hear audio	Isabel Wacker	Sorry about that - all set now.
Hanna needs to change the Audio settings	Mark	Thanks Mark - all set now.
which bags are you using	Anonymous Attendee	We purchase bags from PBS International. We can look up the exact bag model if you get in touch with us. <a href="https://www.pbsinternational.com/">https://www.pbsinternational.com/</a>
I think you have tested transgenic American chestnut for safety. In the real world there are lots of Chinese chestnuts and others around. American and Chinese will cross pollinate. Are these hybrids also tested for safety?	Frank Skalak	We have made several crosses between Chinese chestnut, chinquapin, and Darling 58 chestnut, which we have in our research orchards. Not every possible hybrid type has undergone the full suite of ecological tests, but they should behave the same as similar hybrids, except for the expression of the OxO enzyme. Therefore, we're confident that the tests from other OxO expressing chestnuts will hold for hybrids as well.
Quick correction - pollen should be stored in a NON-frost free freezer. (Frost free freezers fluctuate temperature more in order to prevent frost, and this fluctuation is not good for pollen storage).	Andy Newhouse	live answered
Leaves do not need to be removed before bagging?	Flynn Willsea	I like to remove some, but not all, of the leaves inside the bag. Too much foliage will result in a really wet bag and mold growth. You can cut leaves in half width-wise or remove whole leaves.



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Please clarify what you mean by "frost free" freezer? My understanding is that "manual defrost" freezers keep a constant temperature, (my freezer stays at about 0 degrees F) whereas "frost free" freezers fluctuate to periodically heat up and melt and dry off any accumulated ice crystals. Wouldn't the Manual defrost freezers be preferable?	Louise Aucott	Correct - See Andy Newhouse's correction above. You want to use a NON-frost free freezer.
I'm not clear what the purpose of the mesh bag is?	Dave Maass	live answered
sure I can help him; Give me his contact information. I have pollen for him ready to go	Mark Meehl	I will give him your email Mark Thanks Mark!
Confirming, a "manual defrost" freezer, not "frost free".	Louise Aucott	live answered
Will these trees be resistant to phytophthora? All of our trees die after about 3 months here in middle Georgia.	Marshall	live answered
is there a way to determine if a flower is clogged with its tree's own pollen, and if clogged, can it be removed?	Tom Klak	live answered
Can you provide more detail about the window of receptivity for female flowers? How do you know when the flowers begin to be receptive and when they are no longer receptive? And is there specific terminology for the stages of flowering/receptivity like exists for fruit trees?	ACM	live answered