



What's Wrong with My Plant?

Identifying what's normal and what's not

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First rule of thumb

**There's always
an exception in
nature!**



Ask yourself?

- What is the plant?
- What is normal?
 - Is it a cultivar?



Images from
Missouri Botanical
Gardens Plant
Finder

DC





Cercis canadensis f. *alba*



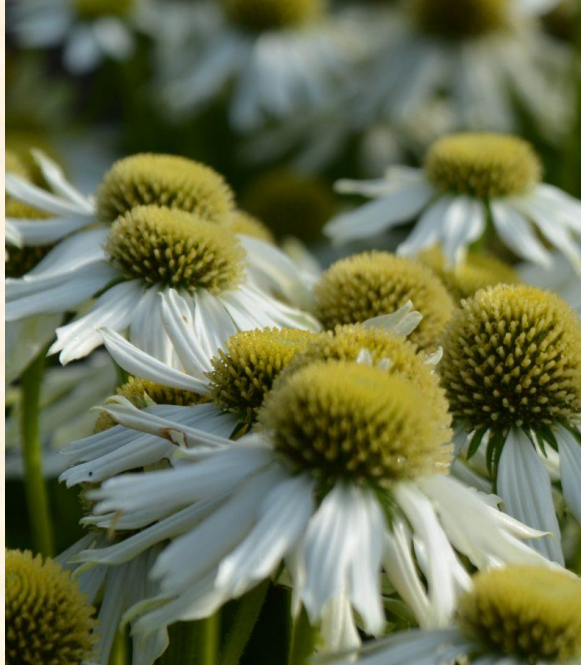
Cercis canadensis 'Forest Pansy'



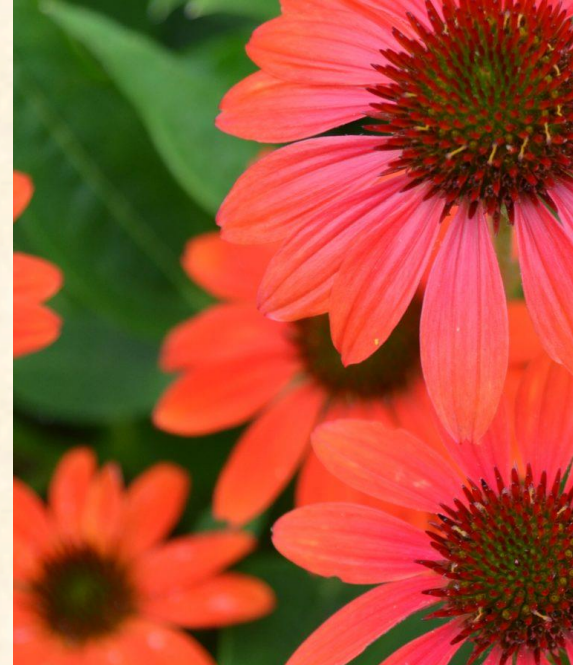
Cercis canadensis 'JN2' THE RISING SUN



Echinacea purpurea



Echinacea 'Snow Cone'



Echinacea 'Santa Fe'



Echinacea 'Aloha'



Echinacea 'Milkshake'



Echinacea 'Sunrise'

Looking closely

- What looks abnormal?
 - What do you **see**
 - Anything on other plants?
- Overall health of the plant?
 - 25% or more
- Site conditions?
 - Standing water?
 - Changes in sun?



Note: if you're planting for wildlife, you need to be okay with a little bit of nibbling!

anthracnose



Image from <https://plant-pest-advisory.rutgers.edu/got-leaves/>



Image from <https://extension.umd.edu/resource/dogwood-anthrachnose/>

- Epicormic shoots at base
- Lower branch dieback
- Death
- Favors low light levels, high humidity, and 60° F temps



Image from <https://ecotreecompany.com/tree-disease-diagnosis-and-treatment/sycamore-anthrachnose/>

Cards | Trusted Professionals | One MDC



Common issues: Anthracnose

Treatments

- Sycamore
 - Time
 - Good sanitation
 - Good cultural practices
 - Prune dead/diseased branches
 - Air circulation
 - Preventative fungicide
 - Active ingredient: chlorothalonil, copper
 - Preventative systematic fungicide (arborist)
 - Plant resistant species/cultivars
- Dogwood
 - Disease-resistant variety
 - Good cultural practices
 - Remove diseased individuals
 - Fungicide (arborist)



Common issues: Cedar

Dust



Images from <https://www.missouribotanicalgarden.org/gardens-gardening/your-garden/help-for-the-home-gardener/advice-tips-resources/insects-pests-and-problems/diseases/rusts/cedar-apple-rust>

Common issues: Cedar _____ Rust

Treatments

- Prune
- Co-exist
- Preventative fungicide
- Mixing plants
- Resistant apple varieties





Common issues: Oak Wilt

Treatments

- Send off samples to confirm dead trees
 - <https://www.npdn.org/home>
- Preventative fungicide for healthy, high-value red oaks near infected trees (arborist)
 - May need to be applied 1-3 years
- Breaking grafted roots with mechanical trenches or chemical applications



Common issues: Oak Gall

Life cycle

Horned oak



Image from <https://bygl.osu.edu/node/1019>

Gouty oak gall



Image from <https://www.missouribotanicalgarden.org/gardens-gardening/your-garden/help-for-the-home-gardener/advice-tips-resources/insects-pests-and-problems/other/galls/gouty-horned-and-other-twig-galls>

Common issues: Oak Gall

Treatments

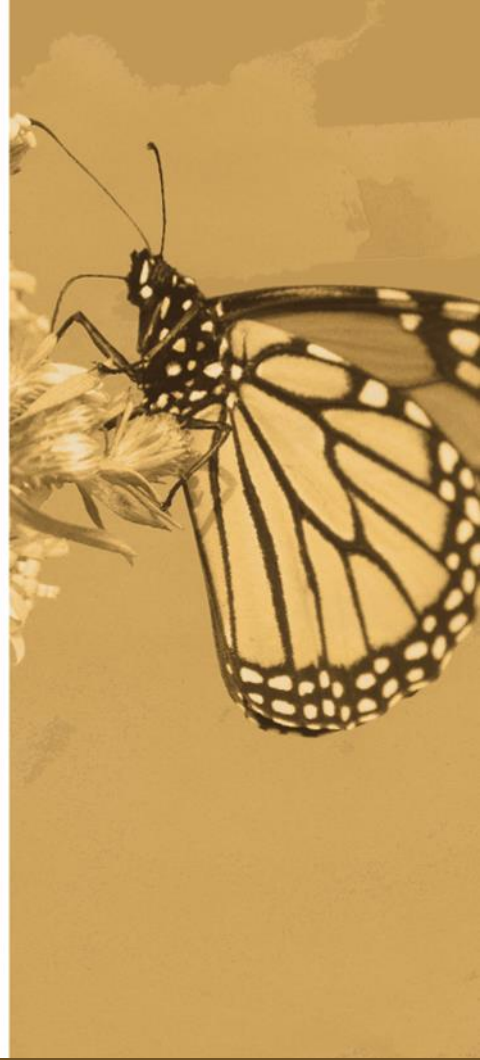
- Live with a minor infection
- Good cultural practices to reduce
 - Prune, remove all debris
 - Maintain health of tree
- Select right tree for your landscape
- Contact certified arborist
- Unlikely to be controlled by chemical treatment



Resources

- Missouri Department of Natural Resources
 - <https://mdc.mo.gov/contact-engage/local-mdc-contacts>
- Missouri Botanical Gardens
 - Center for Home Gardening
 - Email: plantinformation@robot.org
- Certified Arborist
 - <https://certificates.directory.isa-arbor.com/>
 - Able to search for a certified arborist and also skills for plant health care





Questions?

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