

TREE EDITION

LAURA MILLER

TEXAS A&M AGRILIFE EXTENSION TARRANT COUNTY

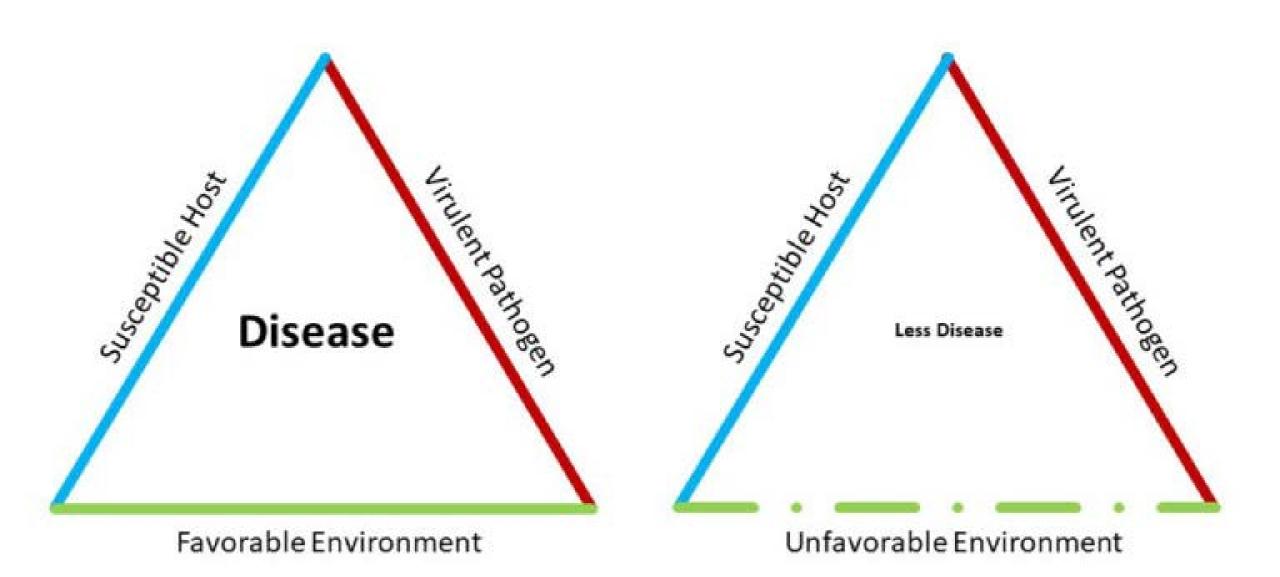




Stay home when you are sick. Plus, stay home for at least 24 hours of no fever without fever-reducing medications. Cover your coughs and sneezes. Use a tissue, or cough or sneeze into your sleeve at the elbow. **Disinfect.** Use a household spray or wipe to disinfect surfaces and objects that are frequently touched. Wash your hands. Scrub with soap and water for at least 20 seconds after you cough, sneeze or blow your nose; touch food, feed or animals; or use the restroom.

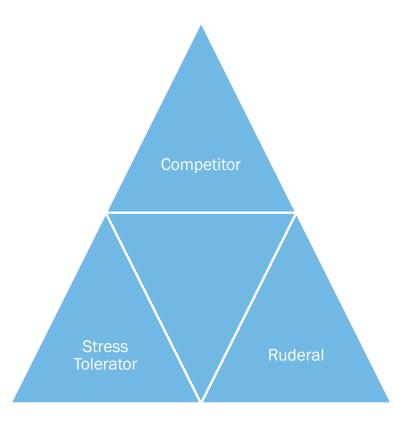
Resources

https://www.cdc.gov/ https://dshs.texas.gov/ https://texashelp.tamu.edu/

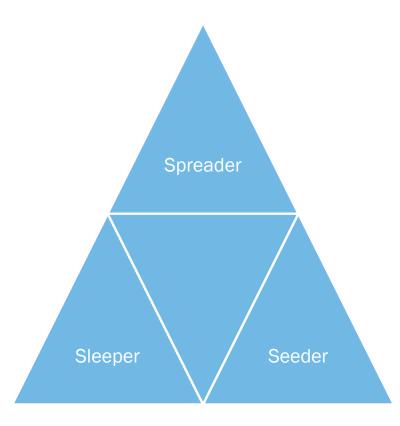


"(in addition to disturbance) plant populations tend to experience consistent selective pressures from physiological stress (ex: water, nutrient and light availability)"

J. PHILIP GRIME (PLANT STRATEGIES AND VEGETATION PROCESSES, 1979)

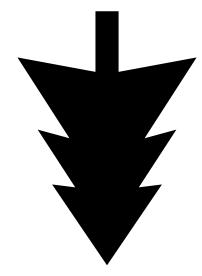


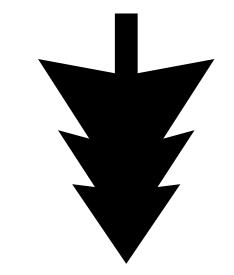
GRIME'S TRIANGLE SIMPLIFIED



WHO WINS?

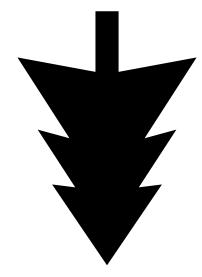
Stress

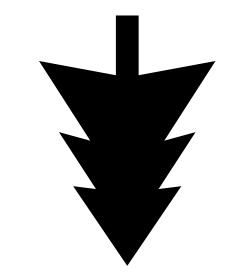




COMPETITIVE ABILITY FAVORED





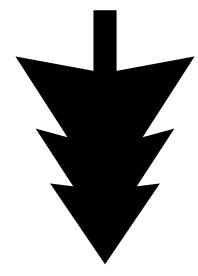


WHAT'S THE COMPETITIVE ADVANTAGE?



WHO WINS?

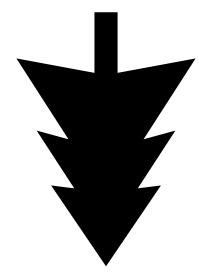
Stress





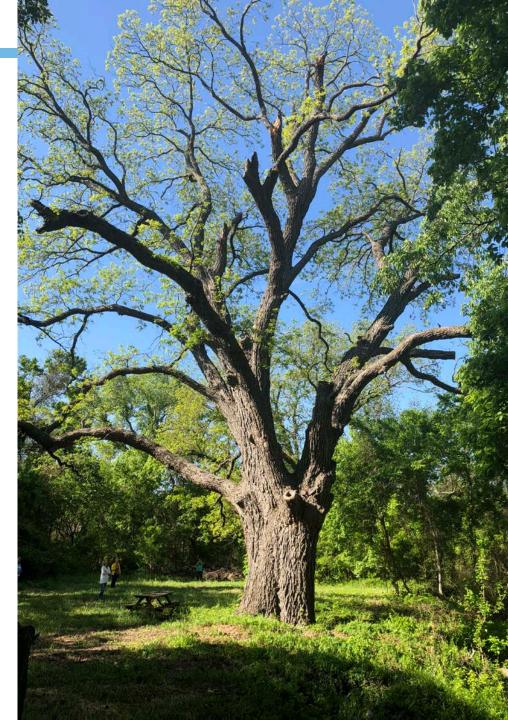
RUDERAL ABILITY FAVORED







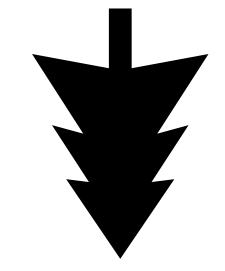
WHAT'S THE RUDERAL ADVANTAGE?



WHO WINS?

Stress

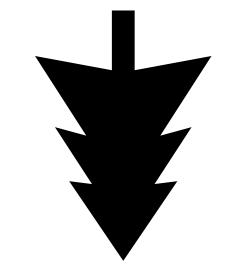




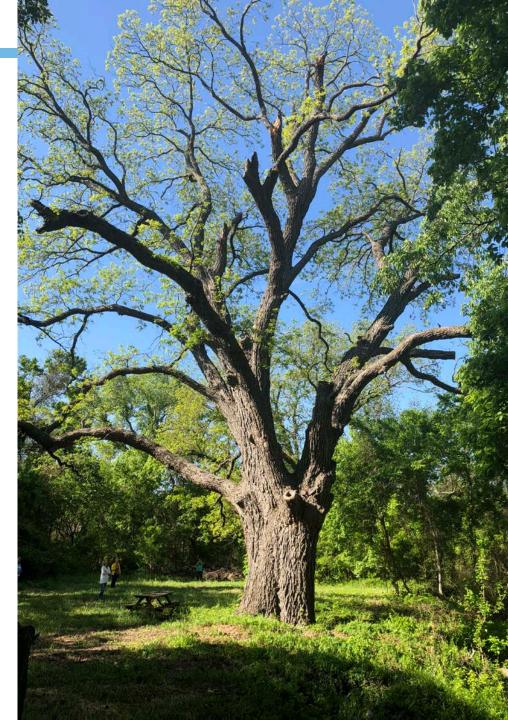
STRESS TOLERANCE FAVORED

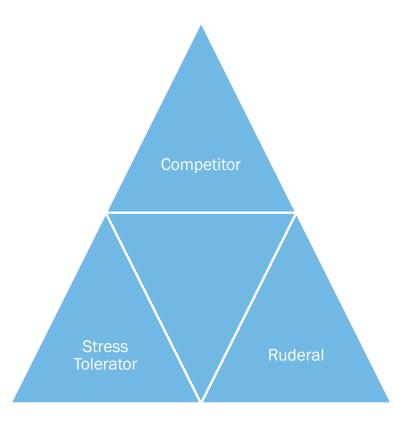




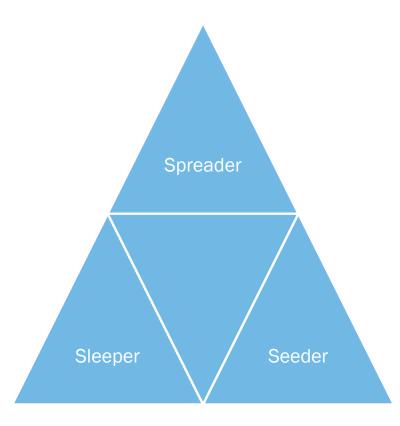


WHAT'S THE STRESS TOLERANCE ADVANTAGE?

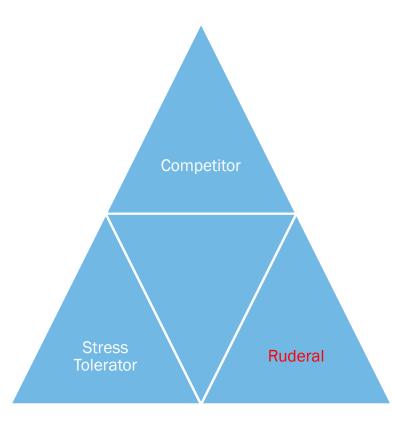




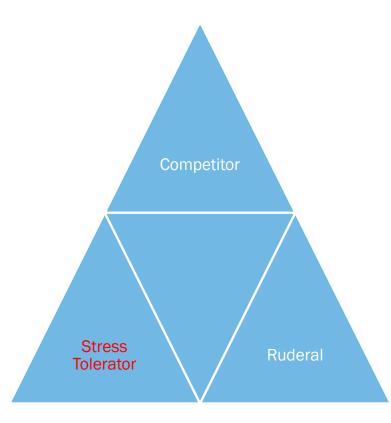
GRIME'S TRIANGLE SIMPLIFIED

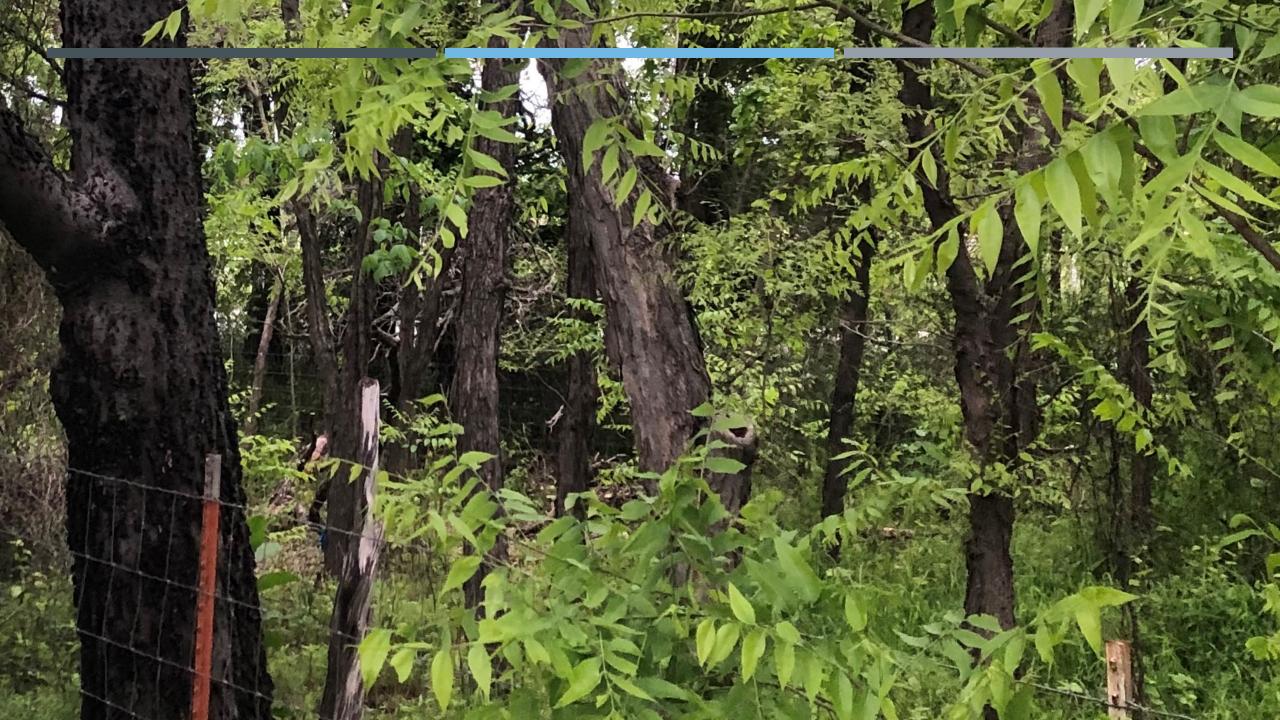


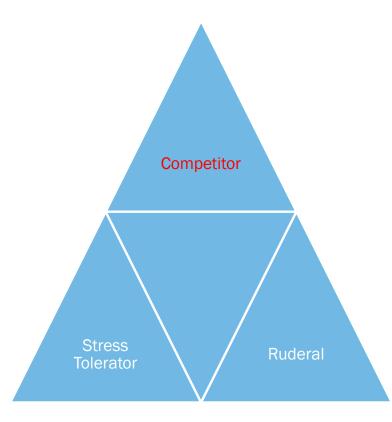


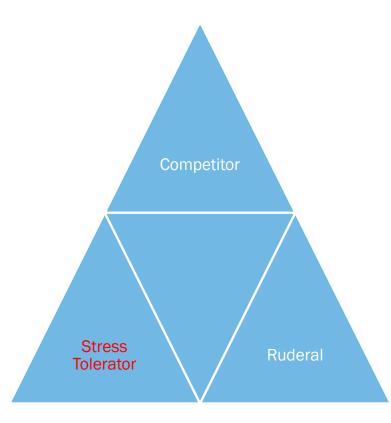




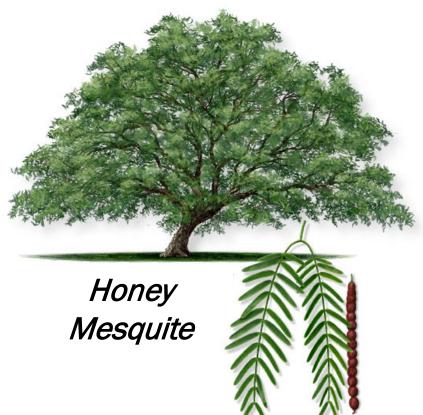








Drought Adaptations Extensive Root Systems Leaf Shedding/

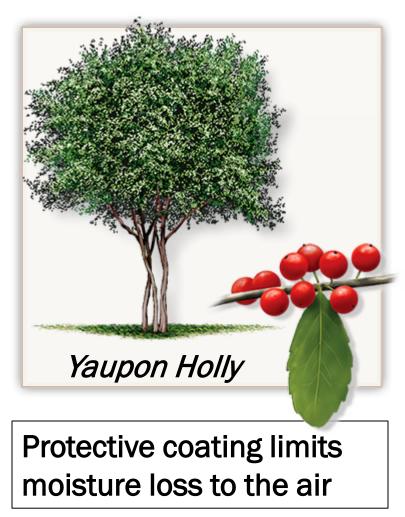


Copyright @ Robert O'Brien Root Depth: up to 15' Root Length: up to 50' **Early Dormancy**



Sycamore







Hairs trap an insulating layer of moist air near leaf surface

Drought Adaptations Small Leaves Sunken Stomata

Cedar Elm right © Robert O'Brien

Less leaf surface area to transpire

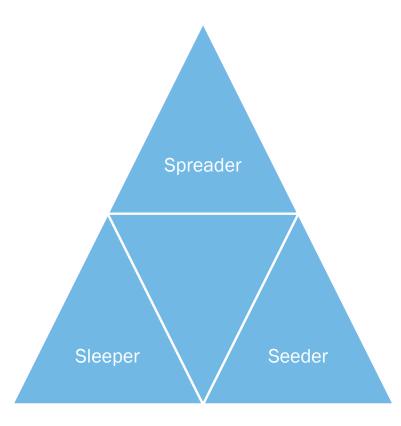
Water escaping during transpiration may remain in the depression & be reabsorbed by the leaf

Salt Cedar





GRIME'S TRIANGLE SIMPLIFIED





QUESTIONS?

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