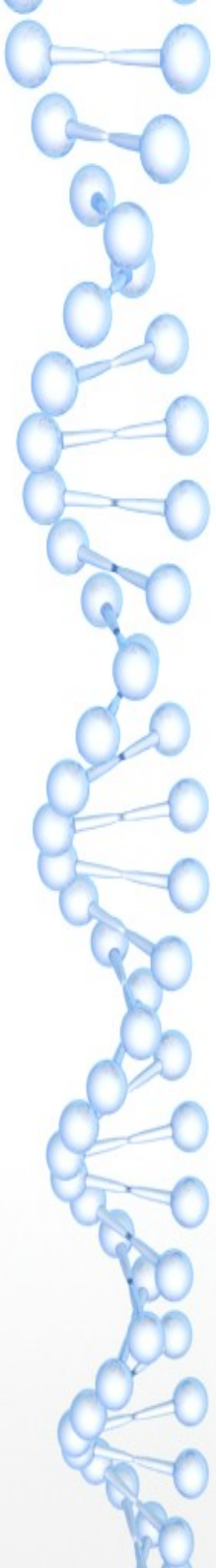


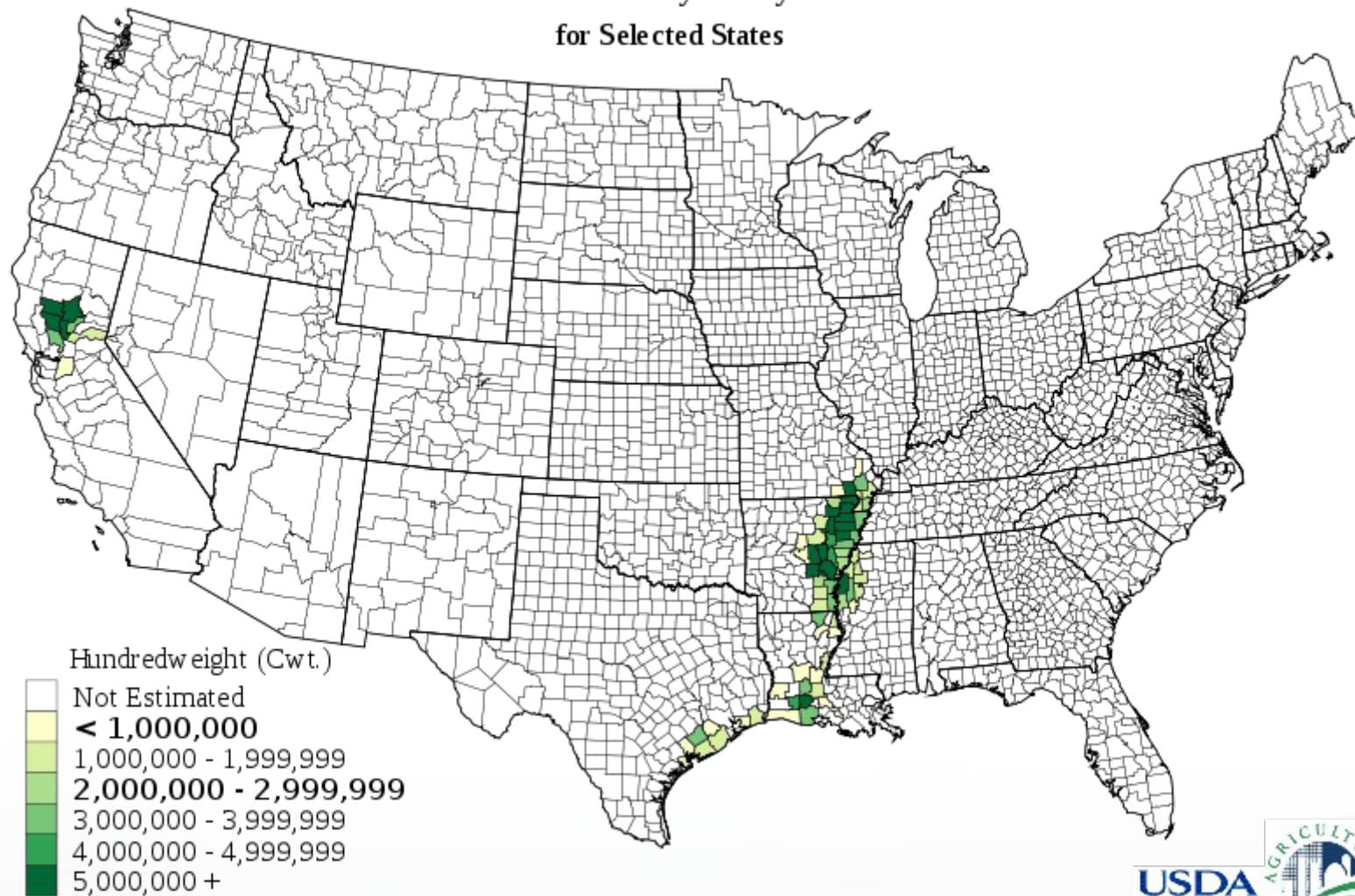
Rice Blast

Host – Rice (*Oryza sativa*)



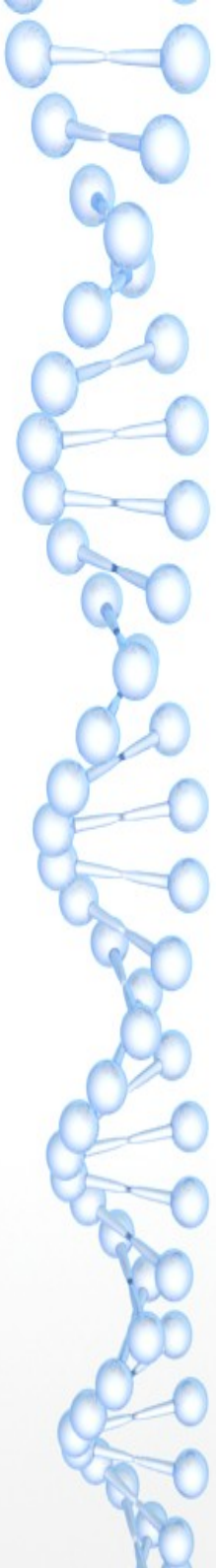


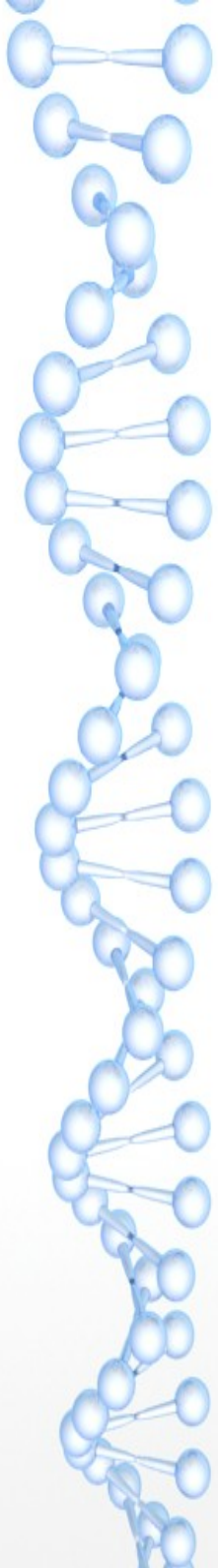
All Rice 2010
Production by County
for Selected States



U.S. Department of Agriculture, National Agricultural Statistics Service







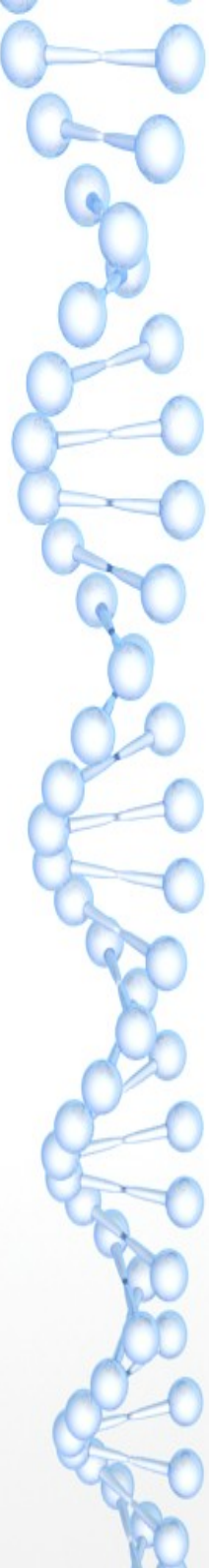


Pathogen

Magnaporthe oryzae

anamorph: *Pyricularia oryzae*

It is an ascomycete that affects rice and other grasses.



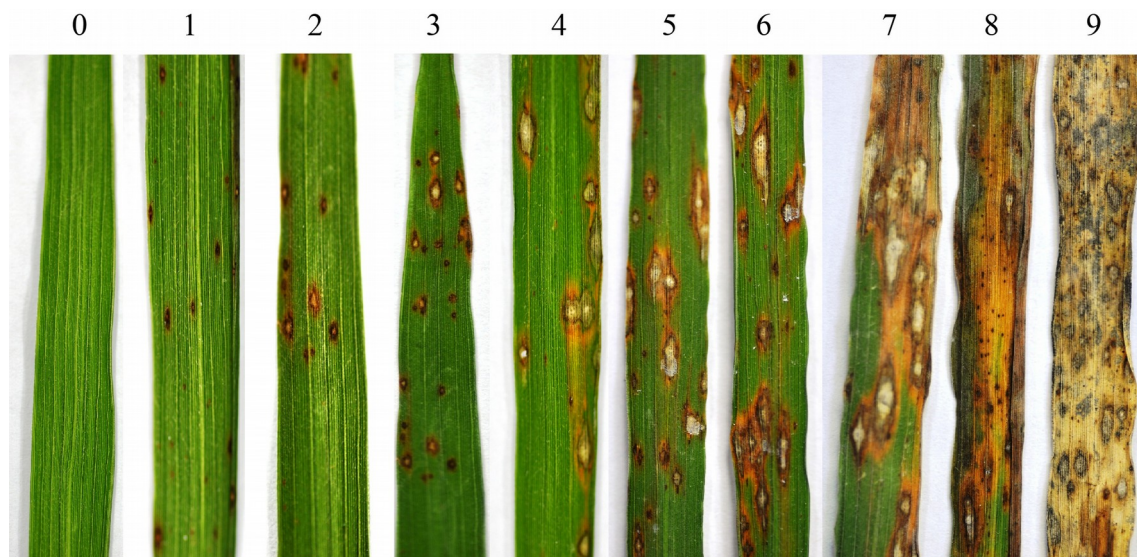
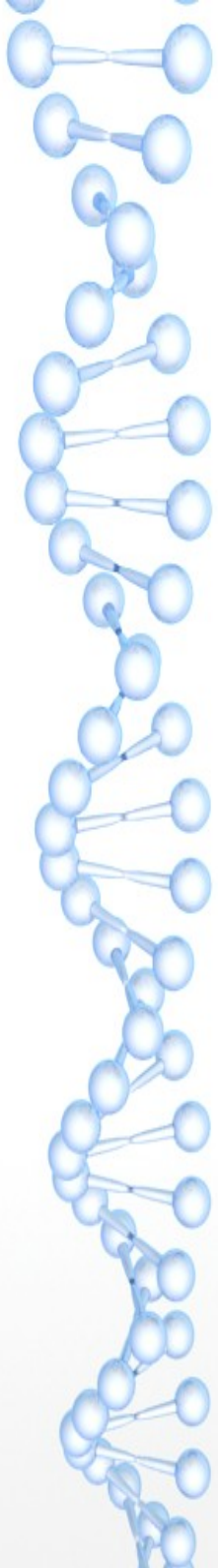
Rice Blast favors a warm wet environment.
Production methods for rice are generally conducive.

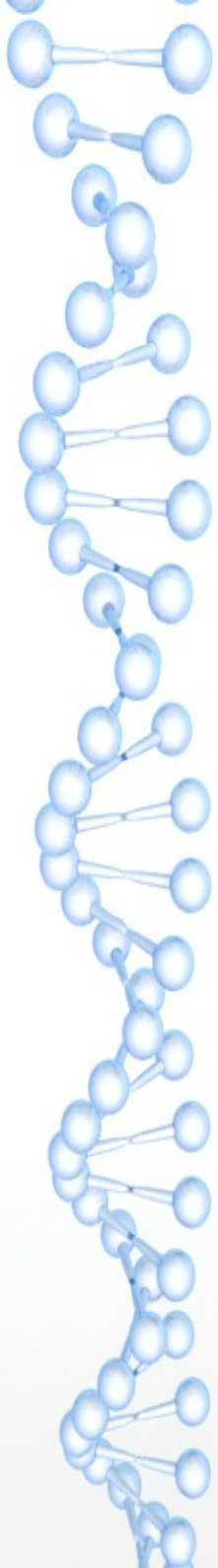




Signs and Symptoms

Diamond shaped lesions
Neck Blast
Blanking
Spores around collars







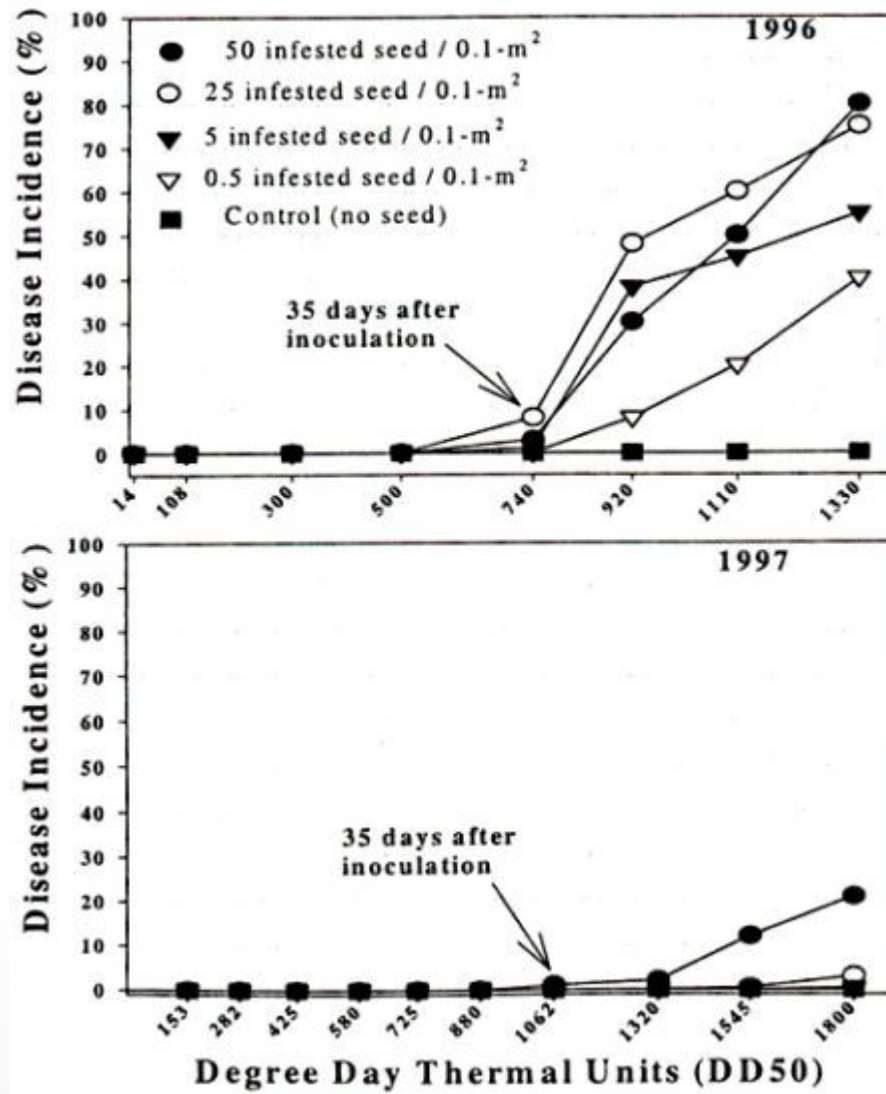
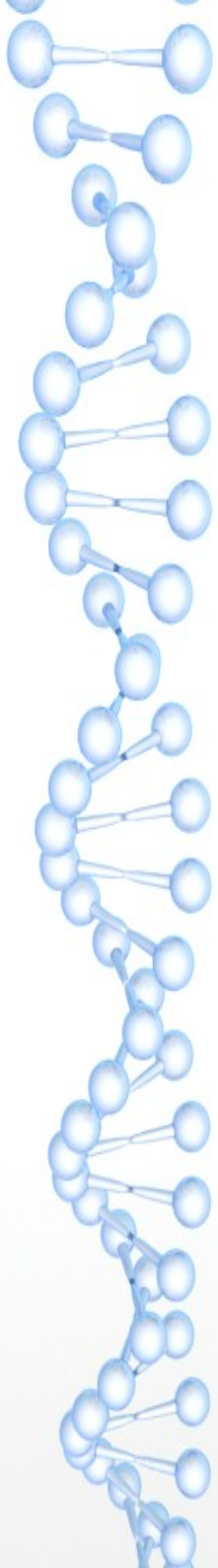
Diagnostic Tools and Techniques

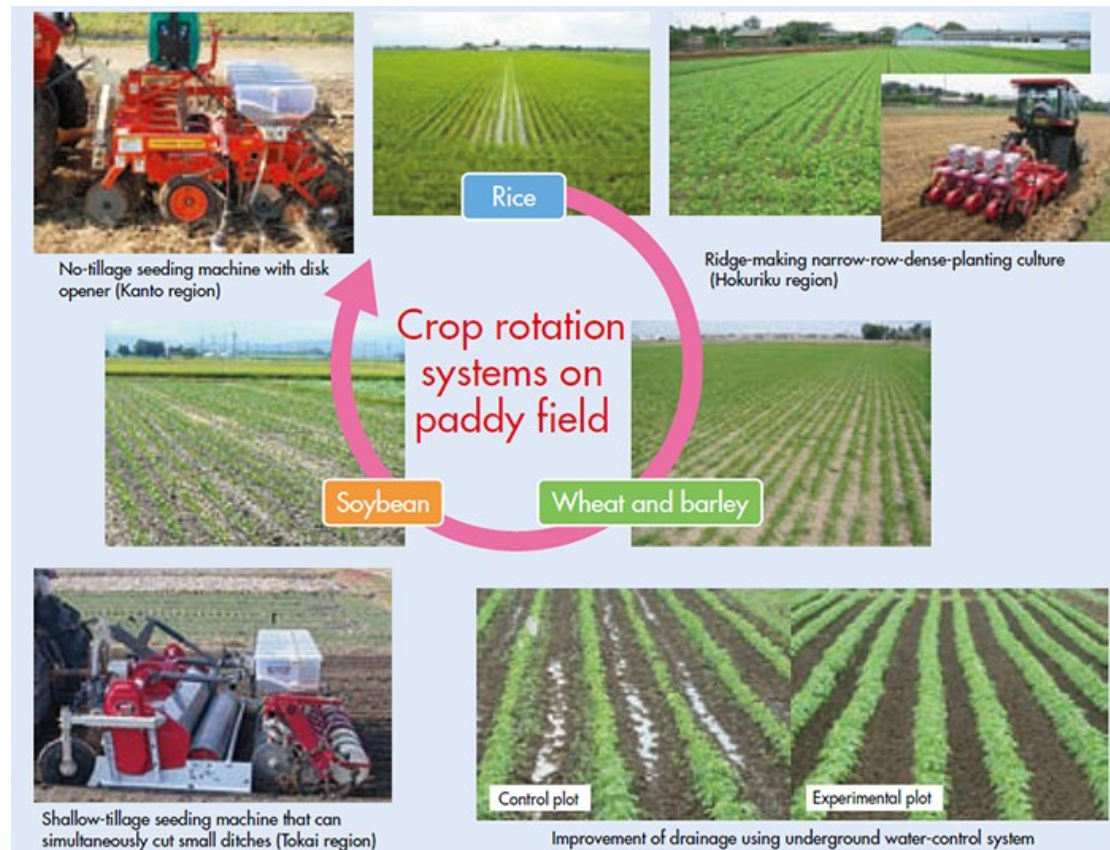
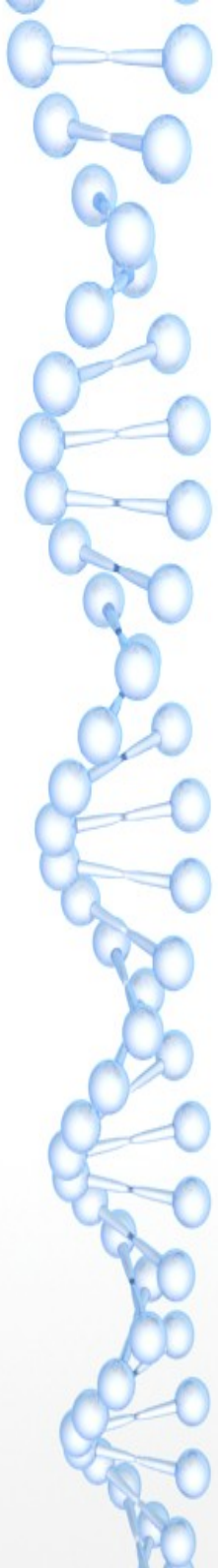
Growing Degree-Days (Heat Units):

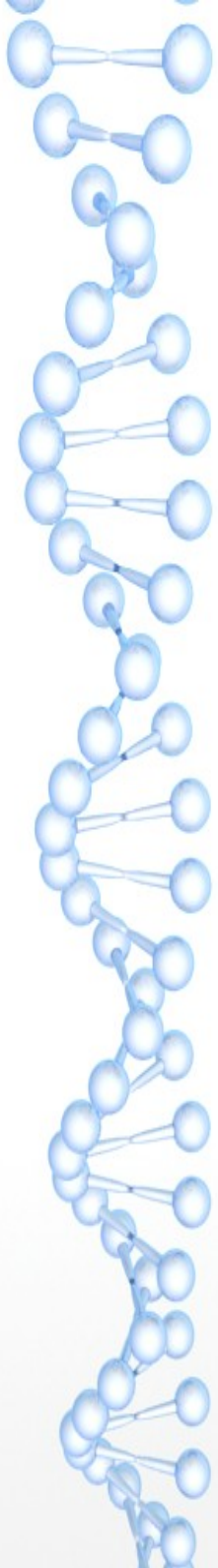
GDD = Avg Temp – Base Temp

Max = 80, Min = 60, Base = 50

$$\frac{80 + 60}{2} - 50 = 20 \text{ GDD}$$







Key Characteristics

Produces hyaline spindle shape Ascospores
Unitunicate Asci
Heterothallic
Both asexual and sexual reproduction



Life cycle

