

LEVEL 3 • C23

Pests, Disease, and Phylloxera

HOST PURCHASE + PREP SHEET

COMPLETE WITHOUT WINE

Follow the North America-to-Europe invasion history, compare grafting with the survival routes of deep sand and maintained geographic isolation, then read a grafted-vine cutaway and an evidence-first response plan.

Prepare

- [] Print one participant sheet per learner
- [] Provide pencils, water, food, and space for private writing
- [] Prepare the no-wine model before any optional bottle is opened
- [] Keep labels and documentary evidence hidden until observations are complete

HISTORY + SURVIVAL ROUTES

Phylloxera moved from eastern North America with vine material and devastated susceptible European roots. Grafting joined European scions to resistant American-derived roots. COLARES shows the sand route: deep dune sand limits the pest. SOUTH AUSTRALIA shows the isolation route: exclusion, quarantine, and hygiene kept the pest out. Old vines are not immune.

Optional application

No default wine: None. Ungrafted-versus-grafted commercial comparisons do not isolate rootstock and are not evidence of sensory superiority.

AI RESEARCH SAFETY

Do not recommend a wine. AI may help locate extension or official pest-management references, but must not diagnose a vineyard or prescribe treatment from a photograph. Use only official extension, university, government, or recognized standards sources. Preserve uncertainty and direct the host to a qualified local professional for diagnosis or treatment decisions.

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Evidence, Reveal, and Service

Threat-response evidence table

FIELD	OBSERVATION / EVIDENCE	SOURCE OR NEXT STEP
Mapped pattern and timing		
Roots, leaves, soil, nearby vines		
Possible movement or biosecurity route		
Diagnostic test or expert		
Containment without premature diagnosis		
Review trigger		

Biosecurity workflow

1. Do not move suspect soil, roots, boots, tools, or machinery to another vineyard.
2. Map and photograph symptoms without treating an image as a diagnosis.
3. Follow local reporting rules and contact qualified extension or biosecurity professionals.
4. Keep sand-based suppression distinct from pest-free status created by exclusion.
5. Treat old own-rooted vines as vulnerable heritage, not immune plants.