

BLACKSMITH
BIOSCIENCE

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TWO STEP PROGRAM
FOR WALNUT GROWERS

Solution Sheet

FUSARIUM WALNUTS

Build a thriving population of beneficial microbes in the root zone, and keep the canopy primed to defend the entire tree, all season long.

STEP 1 · ROOT ZONE

ARMORY XS



Builds the beneficial microbe population

ONCE PER MONTH
Soil application

3 proven *Bacillus* species plus a patent-pending *Streptomyces*. OMRI Listed · 0 REI / 0 PHI.

STEP 2 · CANOPY

WARHAMMER



Fungicide/Nematicide
ISR mode of action

EVERY 2–4 WEEKS
Foliar spray

10% chitosan fungicide · bactericide · nematicide. Liquid, easy to mix · 0 REI / no PHI.

ASK YOUR LOCAL EXPERT

Brett Kinney · Kinney Nursery

(530) 839-2196

HOW THE PROGRAM WORKS

ROOTS UP. CANOPY DOWN.



ARMORY XS

Soil application · once per month

The latest upgrade to Armory SP: three proven *Bacillus* species plus *Streptomyces nigrescens* MR541, a patent-pending strain.

HOW IT WORKS

- Colonizes roots and soil, building a dense population of beneficial microbes
- Releases metabolites and siderophores that make iron, zinc and manganese available
- Solubilizes phosphorus; natural auxins build root mass
- Water soluble, runs clean through drip · OMRI & OIM approved



WARHAMMER

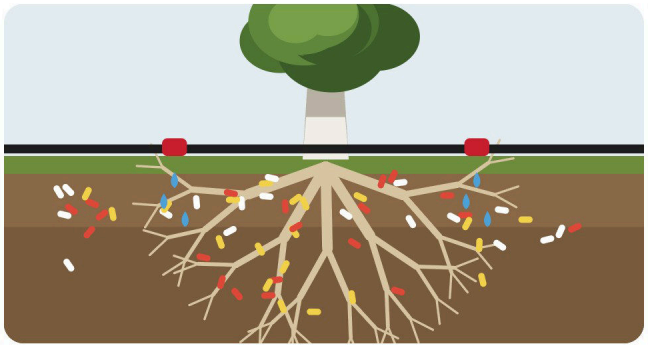
Foliar spray · every 2–4 weeks

A liquid fungicide, bactericide and nematicide containing 10% chitosan, a natural bio-polymer that activates the plants natural immune system.

HOW IT WORKS

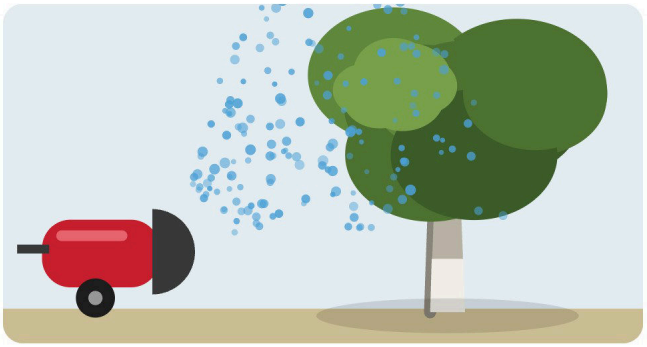
- Signals the tree to switch on its own defenses (induced systemic resistance)
- Suppresses soil diseases including *Fusarium*, *Phytophthora*, *Verticillium* and *Rhizoctonia*
- Mixes easily, no agitation; tank-mixes with most fungicides & insecticides
- 0 REI and no PHI, so it fits around orchard work

APPLICATION METHODS



Soil · Armory XS · monthly

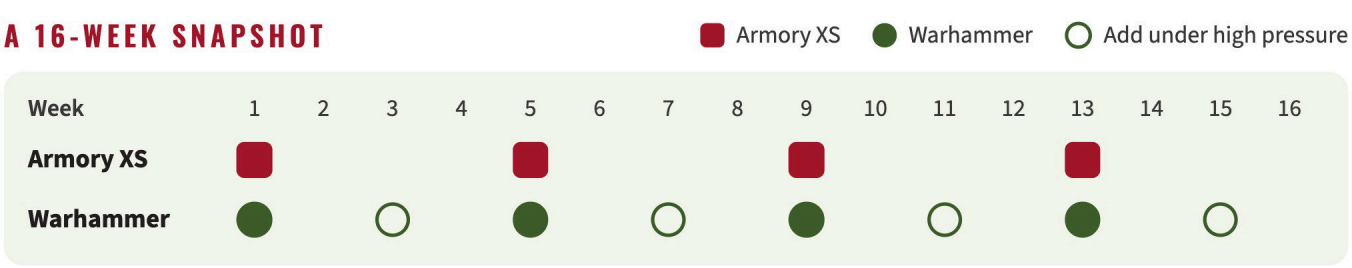
Inject through drip or microsprinklers, or drench the root zone. Apply when soil moisture is 10% or higher.



Foliar · Warhammer · every 2–4 weeks

Airblast or ground spray for full canopy coverage. Start before the onset of disease season.

A 16-WEEK SNAPSHOT



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Always read and follow label directions.