

Why the fuss?

This summer, found Prune brownline in 4 orchards 3 of those were on Krymsk86

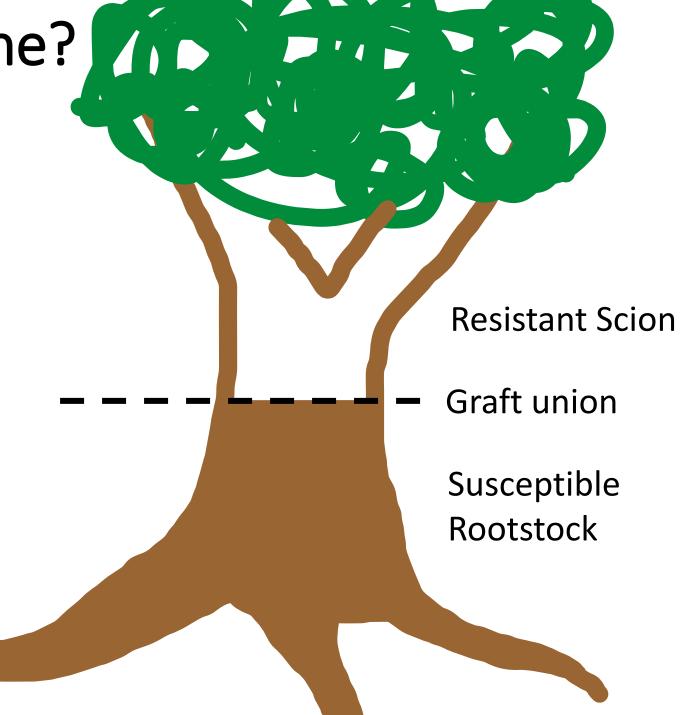
Very rare for the last 30 years

Susceptibility of other modern rootstocks (Viking, M40, Atlas, etc.) unknown

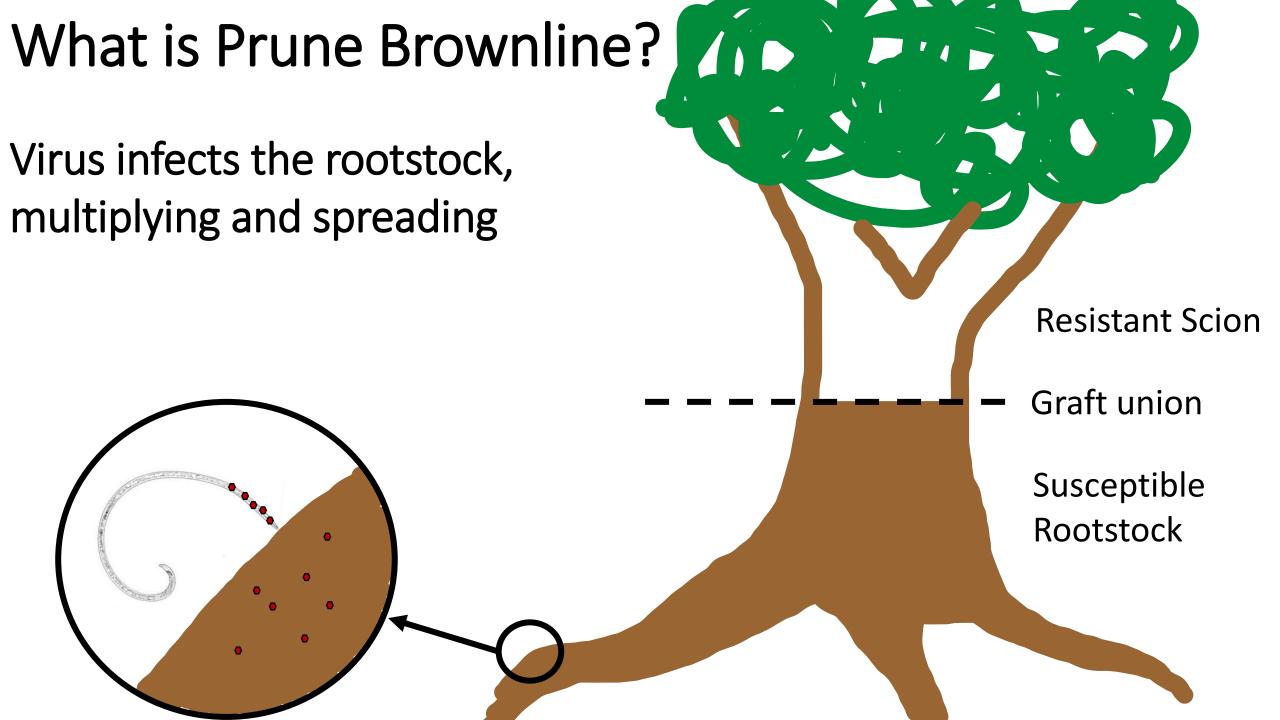
What is Prune Brownline?

Caused by Tomato Ringspot

Virus (ToRSV) transmitted by dagger nematodes (Xiphinema species)



What is Prune Brownline? Virus-infected nematode feeds on roots of susceptible rootstock **Resistant Scion** Graft union Susceptible Rootstock



What is Prune Brownline? Virus spreads up the trunk and reaches the graft union **Resistant Scion Graft union** Susceptible Rootstock

What is Prune Brownline?

Resistant scion reacts to the virus, killing the tissue at the graft union



Resistant Scion

Graft union

Susceptible Rootstock

What is Prune Brownline?

As the tissue at the graft union dies, flow of water, nutrients, and sugar is interrupted, killing the tree





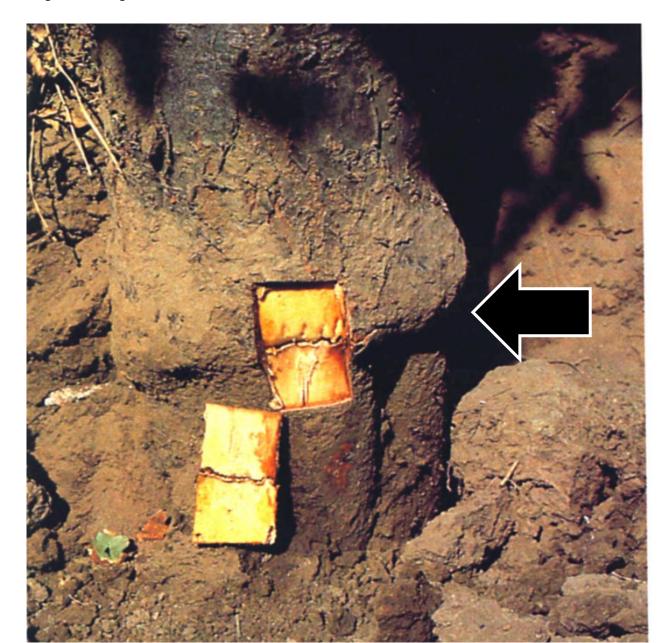
Some History:

"Prune brownline, a recently-recognized disease of prune trees, is widespread in northern California, causing considerable losses in Solano, Yolo, and El Dorado counties. The disease has also been found in Sutter, Tehama, Yuba, and Placer County orchards, but the extent of its occurrence in other California prune-growing areas has not been determined." CalAg, 1984

Susceptible rootstocks: Lovell, Nemaguard, 29C, Myro seedling Resistant rootstock: Marianna 2624













Action Items:

Contact me if you think your trees might have Prune brownline! how widespread? why now?

Working with Mysore Sudarshana to test some modern rootstocks for resistance (first results end of next year)

For now, Marianna 2624 is the best option for replanting

