

We are monitoring leafhoppers at four vineyards: three in Hopland (1 Grenache and 2 Chardonnay) and one in Talmage (Chardonnay), Mendocino County.

Virginia creeper leafhopper

Eggs: Egg laying began on April 1st; by May 20-21 between 10 to 20% of the eggs are still viable; the remaining have emerged or are dead (Fig. 1). Parasitism was observed in two vineyards at less than 0.1%.

Nymphs: Egg hatch was first observed on April 22. On May 20-21 the number of leafhopper nymphs in basal leaves ranged from 4 to 15 in the three Chardonnay vineyards and 46 nymphs/leaf in the Hopland Grenache vineyard (Fig. 2). The majority of the nymphs were 1st-3rd instars (nymphal stage), with 2-7% of the nymphs 4th instars and 0.3-0.9% 5th instars. The percent of 5th instars is low (less than 1%); we project that these fifth instar may begin to molt into adults sometime next week. If control measures are needed based on monitoring, the week of May 25-31 when the majority of the population is still in the younger nymphal stages and before adults begin to emerge would be the timing for the application. Consult your PCA for materials, rates and timing.

Western grape leafhopper

Eggs: The first Western grape leafhopper eggs (WGLH) were observed on the leaves sampled on April 8th. On May 20-21 the average number of WGLH eggs per leaf ranged from 7 to 15 in the Chardonnay vineyards. Between 60-70% of the WGLH eggs have hatched. WGLH egg parasitism ranged from 20 to 25% in the Chardonnay vineyards.

Nymphs: The first WGLH nymphs were observed on May 6. The majority of the WGLH nymphs present on May 20-21 were 1st-3rd instars; with about 1 to 2% of the nymphs 4th instars and very few 5th instars.

Fig. 1 - Egg monitoring: Average number of VCLH viable, dead, emerged and parasitized eggs per leaf on Chardonnay & Grenache at 4 Mendocino County vineyard locations monitored April 1st to May 21, 2015.

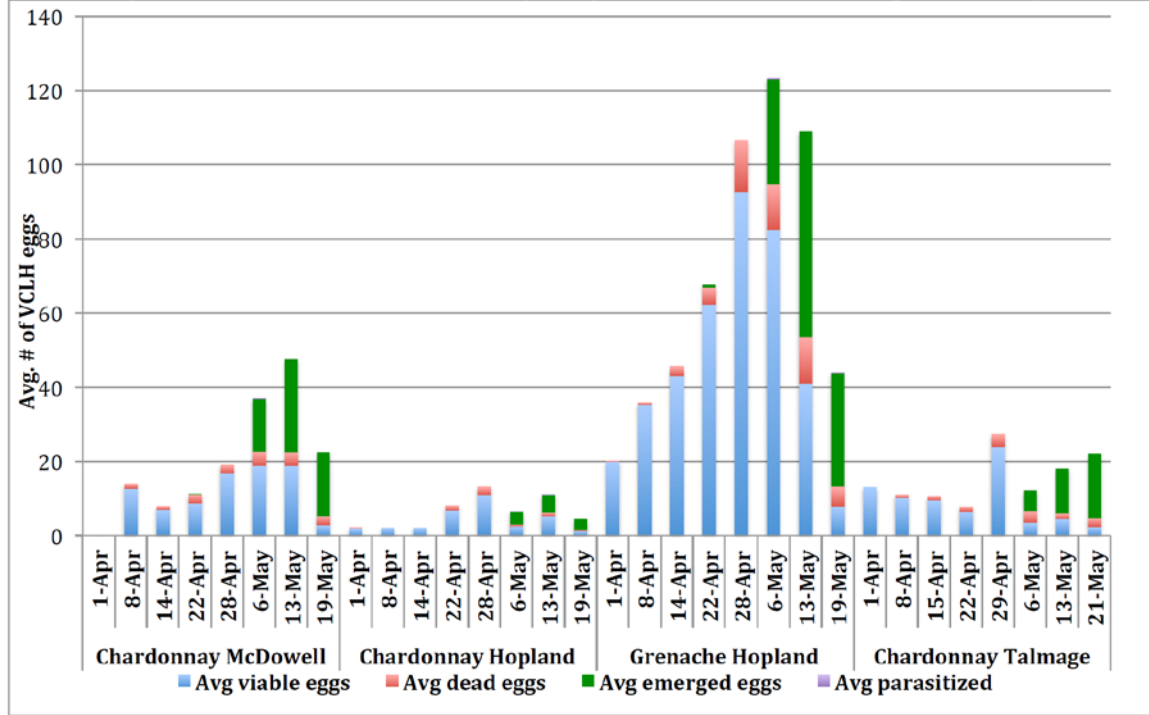


Fig. 2 - Nymph monitoring: Average number of leafhopper nymph per leaf on Chardonnay and Grenache at four Mendocino County vineyard locations monitored April 1st to May 20 and 21, 2015.

