

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 13 peak egg laying has passed in 3 of the 4 vineyards. About 40% of the eggs are still viable and the remaining 60% 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 13 the number of leafhopper nymphs in basal leaves ranged from 5 to 13 in the three Chardonnay vineyards and 48 nymphs/leaf in the Hopland Grenache vineyard (Fig. 2). The majority of instar (nymphal stage) were 1st-3rd instars, with about 1% 4th instars. We project that this week (May 18-24) we may see the first 5th instars, and perhaps the next week (May 25-31) we may observe the beginning of adult emergence. This is the week to monitor your vineyard to determine if control measures are warranted. Based on monitoring, if control measures are needed, the optimum application period would be now through early next week before adults begin to emerge. 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 13 the average number of WGLH eggs per leaf ranged from 5 to 13 in the Chardonnay vineyards; representing peak egg laying. Between 27 to 50% of the WGLH eggs have hatched. WGLH egg parasitism ranged from 11 to 22% in the Chardonnay vineyards.

Nymphs: The first WGLH nymphs were observed by May 6. The majority of the WGLH nymphs present on May 13 were 1st or 2nd instars; a few were 3rd instars and some 4th 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 13, 2015.

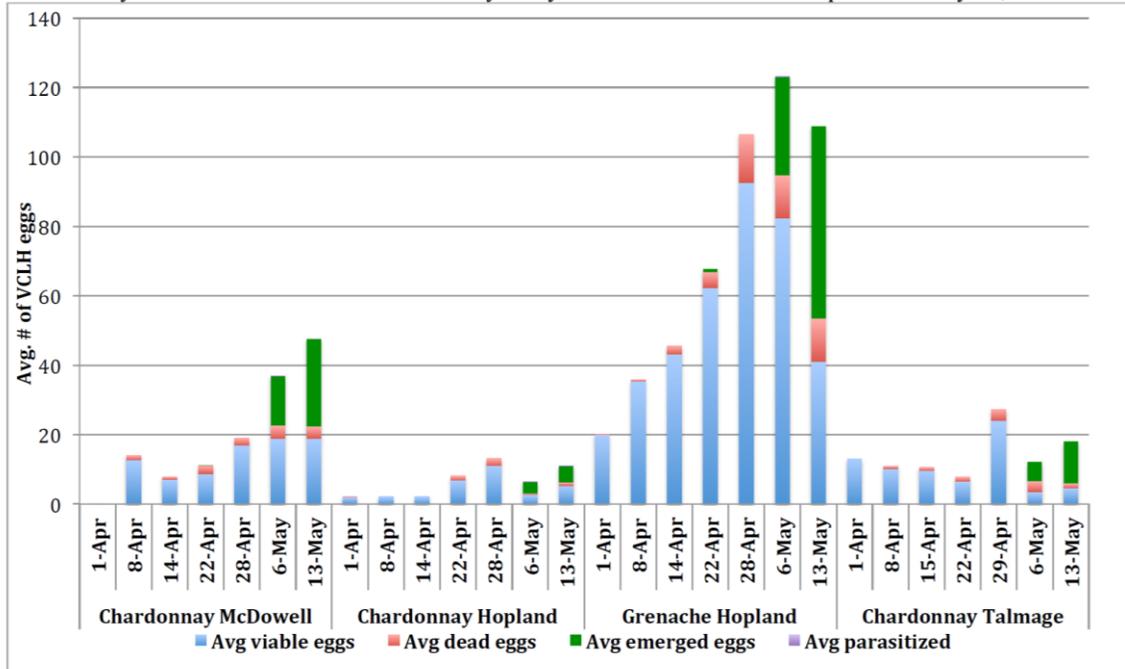


Fig. 2 - Nymph monitoring: Average number of leafhopper nymph per leaf on Chardonnay and Grenache at four Mendocino County vineyard locations monitored April 1st to May 13, 2015.

