Farm Bureau workshops discuss effects of water laws

Three additional workshops will be held during May to inform Farm Bureau members about two aspects of California water law: implementation of groundwater laws and of emergency regulations on surface-water monitoring and reporting.

Conducted by California Farm Bureau Federation Director of Water Resources Danny Merkley and Associate Counsel Jack Rice, the workshops help attendees understand and comply with the new laws: the Sustainable Groundwater Management Act of 2014, or SGMA, and Senate Bill 88, a 2015 budget trailer bill that included the Act of 2014, or SGMA, and Senate Bill 88.

Merkley and Rice held two workshops in April, one in San Luis Obispo and one last week in Red Bluff. The workshops supplement the ongoing outreach to county Farm Bureaus and members that CFBF has conducted since SGMA passed.

Future workshops will be held:
- May 13, 10 a.m. till 2 p.m., in Stockton, hosted by the San Joaquin County Farm Bureau Federation at the Robert Cabral Agricultural Center, 2010 E. Earhart Ave. #100;
- May 19, 8:30 a.m. till 12 noon, in Moreno Valley at the Riverside County Farm Bureau, 21160 Box Springs Road, Suite 102;
- May 20, 8 a.m. till 12 noon, in Visalia at the Tulare County Farm Bureau, 737 N. Ben Maddox Way.

For information on attending an upcoming workshop, contact the county Farm Bureau hosting each event.

Three-year study evaluates owls as rodent control

By Steve Adler

Barn owls have long provided a natural way to control destructive gophers and other rodents, but a recently completed three-year study showed the use of barn owls can be economical as well as effective.

After conducting research in California, Florida, Malaysia and Israel, Mark Browning, a field researcher for the Pittsburgh Zoo, said his study confirmed that barn owls “provide a highly effective, inexpensive and non-toxic alternative to other methods.”

Chris Storm, viticulture director for Vino Farms in Acampo, said he supports supplying habitat for predators, using owls as an integrated pest management technique to control gophers.

“A family of owls will consume several thousand rodents in a year,” Storm said. “We are hoping that consumption of rodents keeps the population at a level that is manageable, rather than spiking to the point where we have to take other measures.”

He said the importance of using owls for rodent control increased when Vino Farms shifted from a method of disk every five or six times a season to growing permanent cover crops.

“Because we are no longer diskin, the mounds that the gophers dig create an uneven path for the tractors to drive down. So we need to suppress the population,” Storm said.

The vineyard in Acampo covers 251 acres and uses eight owl boxes. In addition, Vino Farms provides more nesting opportunities for owls by creating a hedgerow of native oaks running alongside the nearby Mokelumne River, as well as in 23 acres of the farm that has been restored to native habitat.

“Barn owls occupy nesting boxes year-round, but generally nest in late winter or early spring. That is usually when there is the highest adult population, as well as a significant number of young owls. Owls will continually lay eggs, so you have owls of different ages. It is an evolutionary advantage in case the population of rodents goes up,” Storm said.

During the three year study, Browning said he was able to develop a number of recommendations for best practices surrounding barn-owl programs:
- Barn owls need to be used in sufficient densities to make a difference on rodent populations. One nest box for every 10 to 20 acres is a good rule of thumb.
- Nest boxes do not need to be installed higher than 8 feet off the ground. This saves money and time for the farmer, and makes the boxes much easier to maintain.
- Nest boxes should be layered with 3 to 4 inches of much. Hens will avoid barren boxes, and when they do use them, broken eggs often result. Do not rely on the production of pellets.
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- Nest boxes can be placed where convenient; the barn owls will fly to areas of highest rodent density to hunt.
- Boxes can be placed as little as 100 feet apart.
- Inspections of boxes during breeding season should be made in the late afternoon so sitting or brooding hens can return at dusk to eggs or chicks.

- Replacing mulch in September or October is recommended.

Vineyards aren’t the only crop that would benefit from owl boxes, Browning said.

“Growers of almonds, walnuts, cherries and other nut, fruit and row crops are already using sophisticated nest box programs; sugar cane growers as well. Since the barn owl hunts the prevalent rodent in its area, any crop that attracts high numbers of rodent pests qualifies as an excellent attractant for barn owls,” he said.

Browning identified rice as a crop where barn owls could be used to a greater extent, if crops suffer damage from marsh rice rats.

“Usually, it is a matter of the farmers becoming aware of the barn owl’s positive effects,” he said. “The vineyards have been on the leading edge of this.”

According to Browning, the most important findings of his study came as it wound down in its third year, and the accumulated data began to form a cohesive picture of the effect of the barn owls on rodent populations. He said the study recorded on camera all deliveries made to a nest containing three chicks during the first eight weeks of their nine-week developmental period.

“Never before had anyone chronicled the actual number of prey required to raise three chicks,” he said. “Combined with our conservative estimate of adult consumption at one rodent per night—it is likely higher—we were able to determine that over the first two years, the large population of owls took 25,682 rodents at a cost of 26 cents per rodent, versus a cost of trapping at $8.11 per rodent.”

Browning said the figures do not include cost savings resulting from lowered numbers of pocket gopher mounds that interfere with harvest and other operations, and reduced damage to vines, irrigation lines and other equipment.

“What we hoped to accomplish with these results is to raise the use of barn owls out of the realm of the esoteric, where they are often placed, and into the same category as more traditional methods such as trapping, strychnine and fumigants,” he said. “By having confidence that an average nest box of barn owls will take around 800 rodents, vintners and orchardists can determine their relative worth to their operation.”

(Steve Adler is associate editor of Ag Alert. He may be contacted at sadler@cifl.com.)

Correction

The April 13 issue of Ag Alert® carried a Page 1 story headlined “Water, markets complicate farms’ planting plans,” which misattributed comments made by Shaun Ramirez, a farmer in the Westlands Water District. The story should have read:

For growers such as Shaun Ramirez, who lost his Westside farming business and home last year because his water supply was cut to zero, the small increase in water allocation this year comes too late. He’s working now for a farmer in Madera.

“I used to farm in Mendota,” Ramirez said. “My family is a victim of the (federal) Endangered Species Act. The community of Mendota is being choked. A 5 percent water allocation for the Westside is laughable, to be honest. The economic conditions in our small communities are horrible—there’s no work, no options.”

Given the uncertainties about water supplies, Ramirez said, “I think a lot of people in the valley won’t survive this. With four years of no water, I see people who used to produce food standing in food lines. I can’t grasp why our state and federal leaders are letting it happen.”

Ag Alert regrets the error.