By Juliana Barbassa THE ASSOCIATED PRESS

GALT, Calif. — Fairy shrimp, herare tiger salamander, the solimy bee — rare critters that live in asonal rainwater pools in alifornia's grasslands — may chally benefit from having large, eavy-footed cattle grazing round their habitat.

Several biologists looking osely at what happens in these remal pools say the diversity of eephemeral fauna and flora in he water increases when cows ep weedy non-native grasses "The plants and the shrimp

re very delicate, but it works, ad Jaymee Marty, an ecologist the Cosumnes River Preserve, hich was created to prevent ther development along the ly undammed river that flows om the Sierra Nevada into lifomia's Central Valley.

When cows munch on the asive Mediteranean grasses a blanket the surrounding hills, nal pool natives like the frothy ite Meadowfoam and the tiny low Goldfields are more likely bloom, Marty said.

She surrounded 72 pools with etrified wire and alternated riods of grazing for three years. In cow-free areas, a thick ngle of grass grew five feet tall,

obscuring the ground. "The only thing that can grow in this situation is more grass," Marty said.

The 40,000-acre preserve just south of Sacramento is operated by the Nature Conservancy together with other environmental groups such as Ducks Unlimited. as well as the U.S. Bureau of Land Management and the California Department of Fish and Game. Its mission is to preserve the streamside habitat and restore wetlands while demonstrating the compatibility of human uses, including ranching, with wildlife.

The plants and the shrimp are very delicate, but it works.

 Jaymee Marty ecologist at the Consumnes River Preserve

Marty's observations, which she plans to submit to peerreviewed journals, suggest that a partnership of ranchers and environmentalists — of cows and fairy shrimp - might be just what's needed to protect such seasonal pools.

Similar evidence has been gathered by Joe Silveira, a wildlife biologist working for the U.S. Fish and Wildlife Service at Sacramento National Wildlife Refuge Complex in Willows. When cattle there were removed to manage water routes,

the diversity of fauna found in a

twice-monthly count went down. And it wasn't just the little guys — the tadpole shrimp and the salamanders - that disappeared. The removal rippled all the way up the food chain. Silveira found fewer ducks, Sandhill cranes and Canada geese, and less waterfowl also

meant fewer bald eagles. The rare creatures found in the short-lived ponds are adapted to a unique regimen. The area floods completely in the winter, sprouting seeds, hatching salamander eggs and opening the cysts that hold the shrimp's eggs.

Marty found that cattle prefer eating imported grass over lowerlying native vegetation, clearing space for the native plants to sprout and preserving the water. Fastgrowing grasses can suck up water like straws, drying up pools too quickly for the tiger salamander, an endangered animal that needs at least 90 days in a deep pool to lay its eggs and prepare for the dry season.

Ponds in grazed areas lasted an average of 105 days, Marty found. Those in areas where cattle were removed only lasted

## **NEWS IN BRIEF**

## Republicans, Democrats the turn to Web videos to get messages for support out

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iree 200 "is animated direct mail," said Michael

Cornfield, research director of the Institute for Politics, Democracy and the Internet at George Washington University. "It's meant to mobilize supporters, raise money and create buzz."

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