

Girls lacrosse wraps up season with comeback

By Rongi Yost
Correspondent

The girls lacrosse team came from behind to post an 11-7 victory over the Raiders at Crescent Valley (CV) on Thursday, May 5.

Sisters got on the scoreboard at the five-minute mark. The Outlaws got the draw, and after a few passes, Bree Papworth scored off a Sydney Head assist.

Five minutes later, Papworth scored again. The Raiders held the Outlaws scoreless until the whistle blew, signaling the half. At halftime, CV held a 6-2 lead over the Outlaws.

In the second half, the Outlaws took control, clawed their way back, and came from behind to win in a final score of 11-7.

Sisters racked up nine additional goals in the second half. Marissa Young scored four goals, one of which came off a PK that she shot right between the goalie's legs.

"Marissa had someone on her like glue the entire game," said Coach Mikaela Trott. "Marissa just decided to wear out her defender and she did. In the second half, the girl that was on her was very tired."

Katelyn Josten scored three goals, Mia Cook scored a goal, and Papworth scored another goal, for her third.

"By the half, we were very frustrated and we'd had a few yellow cards," said Trott. "We had no energy or positivity, and they (CV) were playing very rough. We decided at halftime to change our attitude."

"We came out in the second half and stepped it up on defense, and had fun," added Trott. "We also switched out our center. We moved Katelyn (Josten) to center and she played well. Sydney (Head) played on the circle and she picked up almost all of Katelyn's draw controls. That proved to be the difference in the game."

Trott commented on the Outlaws' season.

"In the beginning of the season, we hadn't meshed as a team," said Trott. "About three weeks ago, we really came together and started enjoying playing together, and that's when we started to win."

"I'm definitely pleased with the team's finish. I'm proud and happy to have been their mentor and coach, but I'm really going to miss our seniors. McKenzie Hendrickson and Sierra Hummell played home defender for us, Taylor Schneider played attack, and our top scorer, Marissa Young, played midfield."

Water levels disrupting ecosystems

By David Stauth
Associated Press

CORVALLIS, Ore. — A group of researchers concluded in a study in the journal *BioScience* that "hydropeaking" of water flows on many rivers in the West has a devastating impact on aquatic insect abundance.

The research was based in part on a huge citizen science project with more than 2,500 samples taken on the Colorado River in the Grand Canyon, and collaboration of researchers from the U.S. Geological Survey, Oregon State University, Utah State University and Idaho State University.

It raises serious questions about the current practice of raising river volumes up and down every day — known as hydropeaking — to meet hourly electricity demand, which has nearly wiped out local populations of some insects that feed local river ecosystems.

"Insects have evolved to live with occasional extreme floods and droughts, and gradual or seasonal changes in river levels," said David Lytle, a professor of integrative biology in the OSU College of Science.

"These large daily rises

and peaks in river flows due to hydropower dams are not normal. Prior to the construction of dams, there were almost no major daily changes in river levels. This can interrupt the egg-laying practices of some species, and the impact of this is poorly appreciated. Until now no one really looked at this, and it's a serious problem."

Hydropeaking is used around the world and is particularly common with hydropower dams in the American West. Rivers are some of the most extensively altered ecosystems on Earth, the researchers wrote in their study, and more than 800,000 dams exist globally. Hydropower provides 19 percent of the world's electricity supply and far exceeds the generation of all other renewable sources combined.

Lytle is a national expert on how organisms and communities are shaped by disturbances such as floods, droughts, and dams, with much of his research focused on aquatic insects. Hydropower dams, in this case, have a particular impact on insects that lay their eggs near the shore of streams, such as a mayfly, stonefly or caddis fly. Given normal water conditions, the eggs are

laid slightly below the water surface and soon hatch. But if the water level drops suddenly, they can be stranded, dry out and die before hatching.

In this study, the researchers found a clear correlation between hydropeaking and the number of insect species present, and an almost complete absence of certain insects in some parts of rivers where they should have been present — including the Colorado River downstream of Glen Canyon and Hoover Dams. A majority of aquatic insects are vulnerable to this phenomenon, the scientists said in their report, and they can be "subject to acute mortality."

Some of these insects, Lytle said, are the food-base for fish, birds, bats, and other wildlife.

"The loss of these aquatic insects can have a major impact on fisheries and other aspects of ecosystem health," Lytle said.

The researchers did point out in their study that one possible way to address the problem might be to leave river levels stable for several days at a time — possibly on weekends when electricity demands did not vary as much.



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