

Kevin Clark/The Idaho Statesman

FLYING FLEECE: Tim Ferguson, a wildlife technician with the Idaho Fish and Game Department, holds onto two female bighorn sheep flown in from the Big Creek drainage area to the Caldwell Airport. The sheep will be studied by F&G in Caldwell through the

summer in an attempt to find out why the herd's newborn have such a high mortality rate. Last year all 10 newborn sheep monitored in the Big Creek drainage died within a month of birth. The Big Creek drainage flows into the Middle Fork of the Salmon River.

BABY LAMB HAMS IT UP



Katherine Jones/The Idaho Statesman

at the Caine Veterinary Center in Caldwell. This lamb and deadly virus affecting the herd.

This male bighorn lamb isn't shy. He was born two weeks ago others are expected to be infected by their mothers with a

By Stephen Stuebner The Idaho Statesman

CALDWELL - DNA "fingerprinting" research confirms that Salmon River bighorn sheep carry a unique strain of pasturella hemolytica, a virus that causes pneumonia and death, officials said Thursday.

Dr. Alan Ward, University of Idaho veterinary microbiologist in Caldwell, said the DNA fingerprints mean that the bighorn sheep contracted the virus on their own, and not from domestic sheep.

The virus has been killing scores of wild sheep and lambs in subherds within the Frank Church-River of No Return Wilderness, an expanse of 2.3 million acres in Central Idaho.

Researchers find Salmon River bighorns carry a rare virus

Two years ago, officials were concerned that the Pine Creek herd may have been contaminated by domestic sheep grazing nearby. Ward said the tests done on bighorn sheep in the Salmon River herd reveal two new strains of the virus, specific to bighorn sheep.

'Here we have a strain of pasturella that's never been seen before. That's exciting information," he said.

Sixteen other strains had been isolated previously, all from domestic sheep.

Sheep

coffin, but we need to know that's causing it," Hunter said Thursday as he put two bouncing males on display at the Caine Veterinary Center.

If the lambs get sick as expected, veterinarians will use antibiotics to try to keep them alive, he

Suspected stress factors causing the critters to contract the

virus include: ■ The drought's impact on herd populations and food vital-

■ Diseases spread from other wild animals such as moose, elk, deer or antelope.

■ Non-native plants.

the Mor-■ Natural cycles gan Creek subherd of about 200 animals has "nose-dived" in 30year cycles to fewer than 50 in the A special team will monitor the lambs' health in the coming weeks. Washington State University experts will study tissue samples for viruses and parasites, Ward will isolate bacteria, and the Red Cross will analyze blood.

1930s, early 1960s, and possibly the 1990s.

Contact with domestic sheep in isolated pockets where the two graze in common areas.

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The DNA fingerprinting tests bring researchers a small step closer to isolating stress factors that cause Salmon River bighorn lambs to die soon after birth and have caused a 50 percent decline in the once-estimated herd of 3,000 animals.

Three male bighorn lambs, born to ewes flown to Caldwell from Central Idaho last month, will undergo similar tests as they grow sick in the coming weeks, said Dr. Dave Hunter, state veterinarian. The lambs are expected to acquire the disease from their mothers through normal contact. DNA fingerprinting should provide clues as to the exact stress factors causing pasturella hemolytica to kill the animals.

'Pasturella is the final nail in the See Sheep/Back page