



**AFTER THE first bite of the apple on the string, the apple is yours to eat . . . Marty Britt eats an apple as Tammy Vinson who is visiting Kindergarten. Jenifer Johnson and Judy Ward try their luck to get the first bite.**



**FUN TIME at Hallowe'en was taking a bite from apples on a string. Kirby Rogers gives it a try. Jay Keithley is watching.**

**Sheep Profitable for Right Person, Says Expert**

A state livestock expert Friday told a group of sheepmen in Hermiston that sheep farming can offer an excellent possibility to the right persons.

Dean Frischnecht, livestock specialist from OSU talked about the future of sheep production in Umatilla and Morrow Counties.

The local sheep industry already is a multi-million dollar business, but as Frischnecht pointed out, raising sheep isn't for everyone.

We have outlets for both the lambs and the wool in this area and the availability of feed and range land," he said.

Even with the opportunity for someone to make a good living in sheep production Frischnecht doesn't foresee much change in the sheep numbers and, in fact, expects a decrease as the cost of raising sheep rises.

He says sheep numbers in Umatilla and Morrow Counties have dwindled to about 20,000 range ewes which represent a total investment in animals and land of roughly \$2 million.

A successful sheep grower is doing and must enjoy doing it before he will make a profit. Sheep need constant attention and are not like cattle which you often can leave alone.

The biggest problem in raising sheep today is getting qualified help as shepherds.

"There just aren't any good sheep herders available any more and those who are, command high wages," Frischnecht said.

A sheep providing both wool and meat is one of the few farm animals that if cared for properly can return the farmer more than it is worth.

A \$40 ewe will return more than her value in lambs and wool each year if properly cared for, the farm specialist said.

He said that a ewe can pro-

duce 150 pounds of lambs a year at a worth of \$39 and \$6 worth of wool for a total of \$45. "This is close to a top, however, Frischnecht said.

One area of future potential in Umatilla and Morrow Counties is to produce winter ewe lambs because of the mild local winters. He said the animals could be sold to range people throughout the Northwest.

A big problem of sheepmen is predators, especially dogs close to populated areas.

Frischnecht said that dogs in the Willamette Valley killed over \$1,000 worth of lambs at one farmer's place in a single night. Dog-tight fences are costly to erect.

The availability and cost of the government rangeland.

**ADDISON HEARS SCIENCE AUTHOR SPEAK**

Stan Addison, Heppner High School science teacher, was in Phoenix recently where he heard author Harry Wong speak at the National Science Teachers Assn. meeting. Mr. Wong is the author of a text presenting a new program in science. The dynamic speaker explained the new approach as Ideas, Investigation in Science.

Mr. Addison plans a presentation for the science teachers of the school district when his slides are returned. He made the trip in company with his mother, Mrs. Helen Addison who teaches science and health in the non-graded primary of the lab school at OCE at Monmouth.

**Toddler Cuts Lip**

James, 14 month old son of Mr. and Mrs. Ned Clark fell Saturday evening and cut quite a gash on his face and lips. They brought him into the doctor Sunday morning to have stitches taken.

**Economists Develop Way to Measure Pollution Effect**

Two Oregon State University agricultural economists, using Toledo, Ore., as a study unit, have developed a way to measure the effects of air pollution on residential property values.

It was found that a ton per square mile per month increase in dustfall (particulate fallout) would drop property values \$29 per market transaction and decrease property values by \$277 an acre.

The economists—Dr. Herbert H. Stoevener, associate professor of agricultural economics, and John A. Jaksch, research fellow—said decreases in property values from air pollution increases are likely to be greater for higher-valued, more developed properties than for less-developed, lower-valued properties.

A copy of the Toledo study, published by the OSU Agricultural Experiment Station, can be obtained by writing for Special Report 304, OSU Department of Agricultural Economics, Corvallis.

They picked Toledo for the study, said the economists, because the source of pollution for the area was principally from only one emitter and the area consists mostly of single-family, residential housing units. This simplified the study procedures.

Toledo, with a 1967 population of 3,010, includes a 40-million dollar investment, Georgia-Pacific Corporation's pulp and paper mill. It and the company's plywood mill provide year-round employment for about 1,000 persons.

Used in the study were property transactions from June, 1961, through December, 1967, within the Toledo city limits. Only single-family residential housing was considered.

Most air quality data came from the State Sanitary Authority which had four dust-fall sta-

tions. Other information came from Georgia-Pacific dustfall station records on file at Lincoln County Circuit Court as part of a civil complaint case.

Two equations used by the economists measure the effect on market price of size of house, size of lot, quality of housing, number of bedrooms, county manufacturing payroll, and air pollution in dustfall tons per square mile per month.

During the six-year study period, an average of 20 tons per square mile per month of dustfall were recorded, net of normal background. (Normal background — level of dustfall falling in the absence of industrial or other unnatural contamination of the area — for Toledo was estimated to be 10 tons per square mile per month.)

At the 20 tons per square mile per month pollution level, the average property price was estimated to be \$7,900. A reduction in air pollution by 20 tons would result in average property values increasing to \$8,490, or 8 per cent, said the economists.

They pointed out that the two equations have general application in estimating marginal social costs (or benefits) which result from changes in

Mrs. Maude H. Pointer has been up visiting from Corvallis. She rode up with Mrs. Fred Pointer who is Jim Driscoll's sister. Mrs. Pointer has visited with Mr. and Mrs. Don Pointer and family and Mr. and Mrs. Bud Batty.

She will go home with a big supply of Batty potatoes and Turner beans!

air quality and that such costs or benefits must be known if economically efficient standards are to be set or if charges are to be levied to impose the costs of pollution upon the matter.

Stoevener and Jaksch recommended more emphasis in experimenting with organizational structures so air quality can be managed. They also recommended a more careful placement of air quality measuring stations for better data which can be coordinated with information from a meteorological station. Important since meteorological conditions greatly influence the distribution of particulate fallout.

Said the economists: "Results of this study also suggest certain directions which future research might profitably take in attempting to understand the effects of pollution upon the value of land. These would include the development of models to explain the effects of air pollution upon commercial, industrial, and agricultural lands."



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parents, Mr. and Mrs. I. H. Pascal, at Fruitland, Wn., was Reggie Pascal, linotype operator at the Gazette-Times. He went up Friday evening and returned Sunday afternoon.

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