## Waxy Leaves Are Healthy Leaves

could be healthy for plants and animals.

Research has shown that natural have learned this waxy coating acts as a barrier to insect attacks.

Agricultural Research Service - livestock less alfalfa." scientists in Logan, UT, and waxy-leaf alfalfas to take advantage of these characteristics.

In addition, "wax may reduce the risk of bloat in cattle that graze leaf surface. on highly nutritious alfalfa plants," Melvin D. Rumbaugh at Logan.

Bloat is a frequently fatal acanimal's stomach. Cattle are the mostl likely to bloat, but sheep and tacks. other ruminants can be affected. Research with plants other than in cooperation with the Kansas ARS.

Homemakers may not like it on alfalfa indicates that wax on plants Agricultural Experiment Station their floors, but waxy buildup helps break down the foam, at Manhattan, is taking a different allowing the gas to escape, and that the more wax, the less bloat.

wax on the surface of plant leaves to bloat reach \$300 million a year. slows the loss of moisture from a "It's even more," he says, "when plant. More recently, scientists you account for milk and weight loss that result when farmers try to and flourishes in arid areas. reduce bloat by feeding their

Rumbaugh and colleagues at Manhattan, KS, are breeding new Logan found that the natural wax on 28 common types of alfalfa varies considerably — from 138 to 460 milligrams per square meter of

Rumbaugh has developed both says plant geneticist high-wax and low-wax alfalfas by crossing these U.S. varieties. They will be compared during the 1986 cumulation of gas bubbles in an growing season for their ability to grow alfalfa in dry areas where withstand drought and insect at-

route for waxy leaves. He crossed a wild, low-growing waxy species Rumbaugh estimates losses due from northern Italy with a widely used U.S. species. The Italian alfalfa, Medicago prostrata, typically grows only inches long

Wax production of this hybrid available to the plant. On plants grown on dryland, wax production increased and many strumae — balls of wax — developed on the leaf surface. None developed to the leaf surface. None developed to the leaf surface. varies with the amount of water leaf surface. None developed on irrigated plants.

Says Sorensen, "These droughtresistant characteristics can be bred into commercial alfalfa varieties, making it possible to presently available varieties cannot survive." - By Linda Cooke-Agronomist Edgar L. Sorensen, Stinson and Howard Sherman, MAILBOX MARKET FOR SALE

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Lancaster Parming Saturday, May 17, 13

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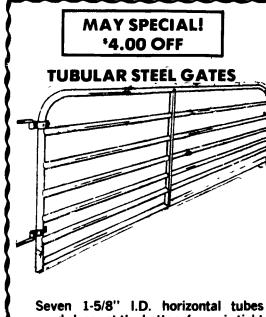
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