

Bareville Plant Becomes Distribution Point For Corn Sweeteners



Railroad cars full of corn sweetener ready to be unloaded into the storage tanks or onto a tractor trailer truck.



A tractor trailer load of corn syrup weighs out at the L & S Sweetener, Inc., plant in Bareville.

BAREVILLE--Corn refiners have experienced a 7% increase in the use of fructose corn syrup according to statistics compiled for the Corn Refiners Association, Inc., Washington D.C.

A local company who only recently opened its storage tanks to this market is L & S Sweeteners, Bareville. A division of Zook Molasses, Inc., this new business owned by Larry and Sally Martin, RD2, New Holland, saw more than 300 tractor trailer loads of corn sweeteners go through the plant in the month of April. The heavy corn syrup arrives at the distribution center along the railroad siting in tank cars. These tank cars must be heated to 120° Fahrenheit before the syrup can be pumped out of the railroad cars into the stainless steel silos that provide insulated storage for the sweeteners.

The heating process is accomplished by using spent oil in a huge boiler that creates steam. The steam pumped through pipes in the walls of the railroad cars warms the syrup to pumping consistency. When the sweetener is ready to pump, a series of valves and flow patterns have been arranged so that cars parked in the 7½ acre terminal can be unloaded into any of the four storage tanks. By switching valves the materials can be pumped out onto tractor trailer trucks for delivery to the customers.

Actually L & S Sweeteners act only as the local distribution point

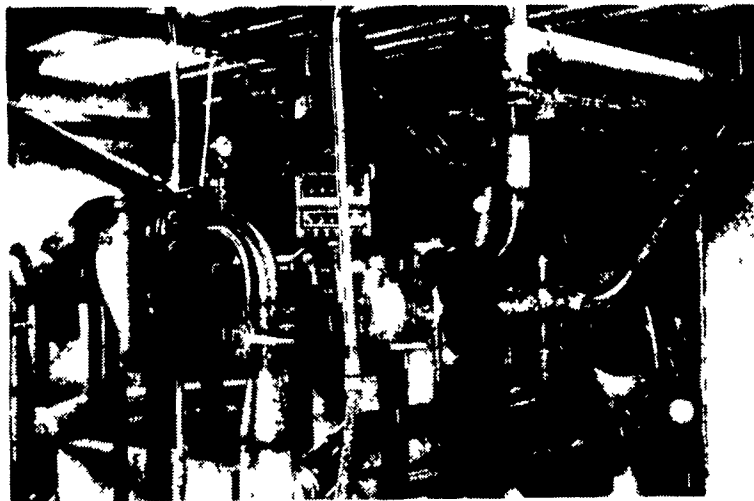
for Archer Daniels Midland (ADM) of Decatur, Illinois. ADM who closed two other terminals in the northeast since this plant opened decided to use the Bareville location for several reasons. 1. The labor force is reliable. 2. The trucking firms are reputable. In addition, the location is central to the northeast markets.

A USDA report shows that corn sweeteners constitute the single largest source of sweeteners in the American diet. Refinery products include: high fructose corn syrup, glucose syrup, dextrose corn syrup solids, and maltodextrins.

In recent years major soft drink bottlers have increasingly replaced sugar in their formulas with HFCS. A move analysts attribute to a number of factors: reliability of supplies, consistency of quality, acceptance among consumers and economic advantages.

In addition, the locally distributed sweeteners go to bakeries and candy manufacturers in Virginia, Maryland, New Jersey, New York, Delaware and western Pennsylvania.

The storage silos are 12½' in diameter and 50' tall. Coils in the bottom of these tanks also allow the steam system to maintain a 120° temperature in the silo. Each silo holds 2½ railroad cars or 40,000 gallons of syrup—that's 10 tractor truck loads. Invested cost of the operation is estimated at about \$450,000.



The pumping metering system in the corn sweetener distribution center. The syrup must be heated to 120° Fahrenheit before they can be pumped through this system.

Farmers Eligible for National Conservation Awards

WASHINGTON, D.C. — Farmers and ranchers demonstrating practical and innovative ways to conserve soil and water in their operations are invited to participate in a national soil and water conservation awards program.

This is the fourth annual awards program, sponsored by the National Endowment for Soil and Water Conservation and the Du Pont Company, which selects a conservation farmer/rancher from each state and awards \$1,000 to each of the three national winners. In 1985, the national winners and spouses attended a special ceremony in the Roosevelt Room of the White House.

"The purpose of the awards program is to identify and honor those farmers and ranchers who are implementing sound, innovative and cost-effective conservation techniques," says Emmett Barker, chairman of the Endowment and president of the Farm and Industrial Equipment Institute. "These outstanding farmers and ranchers deserve

special recognition and through this program their conservation initiatives are brought to the attention of others in agriculture and the public."

The top conservation farmer/rancher will be selected from each state by committees of farm, conservation and government leaders. The Endowment Technical Advisory Committee will then review the conservation work of the state winners, selecting up to 10 national finalists on the basis of their accomplishments in soil and water resource management and pollution abatement.

The national finalists and their spouses will receive an expense-paid trip to attend a national awards ceremony in the fall. Three national winners will be selected from among the finalists.

The winners in the 1985 program were from Nebraska, Pennsylvania and Washington.

For more information on the awards, contact Barbara Mackenzie, 202-546-7407.



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