Trench Silo Demonstration



Wintry winds blew, and a light covering of snow failed to curtail the crowds at Friday's Lancaster County trench silo demonstrations on the farms of John M. Groff, R1 Bareville, and the Harry Griffith Farm operated by Robert C. Groff just north of Quarryville on R3. Looking over | story). (Lancaster Farming Staff Photo).

Trench Silo Cuts Feeding Costs in Lancaster County⁻ Dairy Enterprise

By ERNEST J. NEILL **Editor, Lancaster Farming**

Seeking cheaper milk at the production level, Robert C. Groff has reduced hay purchases through use of a trench silo. Mr. Groff, who farms the Harry Griffith place just

Bareville, on Route 23.

Throughout the country,

trench and bunker-type silos

have been constructed to pro-

north of Quarryville, was one of two Lancaster County hosts in a Groff farm, and in the aftertrench silo demonstration Fri- noon, similar sessions were held day.

Explaining procedures and construction were M. M. Smith, Lancaster County agricultural agent, and John Walker, extension agricultural engineer from

John M. Groff Host Also



the open end of the silage, with the con crete walls showing, are from left to right Mr. Griffith; Bob Groff; John Walker, extension agricultural engineer from Penn State, and Max M. Smith, Lancaster Coun- loats combination, seeding should ty agricultural agent. (See accompanying be done in March, with fertilizer gate suspended from chains on

Mr. Griffith pointed out that dirt mounds around the trench silo which runs north and south, opening to the south, divert rainwater, preventing erosion and spoilage Dimensions of the trench silo are 78 by eight feet at the bottom, 78 by 14 at the top. When filled 10 feet high, and well crowned, it holds an estimated 180 to 200 tons. So far, in the first year, success has been proved, with only two or three inches of spoilage. at the farm of John M. Groff, R1

Sixteen ton of sand, 24 tons of stone, and 114 bags of cement went into construction of this trench silo, at a total cost of

are of little value. Grass is best or too near the residence, where when just heading. Alfalta serves best just before it shoots odors may be offensive. Солstruction close to the barn or a head, or in 10 to 20 per cent feeding area is advised, allowing blossom. Clover in one-third blosroom for juices to seep away, and som is also good, and alsike in to save labor. full bloom may be used.

Any Hay Mixture

By cutting at this period, it is Sides should slope back two feet at the top in an eight-foot possible to save more of the feed wall. Slanted sides ease packing, and will give less spoilage than vertacal walls.

Bob uses a rubber-tired tractor to pack his silage, as weight is more concentrated on tires Juicy. Use preservatives," Mr. Smith admonished. than on the broad footage of a Seal Top Carefully träck tractor.

Mr. Smith explained other feacures of a trench hilo especially crops that can be used. "Any hay mixture is good; soybeans sorghum or soybeans and sudan offer some of the best tonnage, and no preservative is necessary," he told.

If preservatives are necessary, any cereal crop chopped or ground can be used. Grasses and legumes need preservatives. Another good combination planting for Lancaster County 1s Canadian field peas and spring oats, using a bushel of inoculated peas to a bushel of oats to seed one acre.

"Make sure you combine crops that mature simultaneously," Mr Smith warned. In the peasdrilled separately. Harvest when a bar crossing the top of the small peas form, when oats head trench silo out. Be sure to use preservatives," he told.

"It takes high quality hay to Smith added.

Corn May Be Added

crease palatability - crushed or ground. Preservatives must be mixed thoroughly — and it would be advantageous to mix them at material goes into the blower. moisture, and those over mature move.

nutrients than in any other form of feed harvest. "Put good stuff an your trench silo. Cut grass at the proper state of maturity, when it's green and Pack silage well, the group was told, especially along the sides, which are more vulnerable to

seepage. The top must be carefully covered, and the best seal is tarpaper and dirt or sawdust. Three inches of ground limestone may be spread evenly on top, and after a rain or two will form

a weather-proof crust. Feeding is ordinarily from the front end of the silo, using a tractor scoop or loader.

Mr. Smith advises against selffeeding dairy stock. For beef cattle and dry cows, yes, but hand feeding is recommended in the case of dairy stock. Mr. Walker showed a scale model of an ideal trench silo, as well as models of feeding gates, both movable wooden gate type, and

Summing up the advantages of a trench silo, Mr. Smith told, "You can get the most feed make high quality silage," Mr. value by making grains into silage. You use all feed nutrients. You cut the need for hay - but Corn may be added to serve some dry material, 5 to 10 as both a preservative and to in-pounds daily, is still needed" Around 40 attended the Bare-

ville meeting too.

It looks like the government's the field chopper as the ground latest raising of interest rates checked the boom Now every-Crops destined for silage need one is watching for the next



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there should be an eight-foot fall in each 80 feet to assure proper drainage," Mr. Walker advised. At the same time, trench silos

should not be constructed too near dug wells, or water may be blackened and contaminated,

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