

FFA's Help Repair Streams

(Continued from Page A22)

and the plantings have on water quality.

"We want to study exactly what happens to the stream once we get the animals out of it," he said.

On hand last week to assist in the planting were Jim Hickernell, from the state Game Commission, and Rich Skubish, land manager for the Commission.

Dean Brubaker, of SCS, and brother Omer assisted students in installing fence posts as part of a rotational grazing system at the Jacob Fisher farm.

Seven paddocks are under construction at the farm to help replenish the grasses that have endured

heavy grazing.

A total of 7½ acres are available for grazing at the Jacob Fisher farm. The posts were provided by the Fishers, and the wiring from Tipper Tye, which also supplied the recycled plastic posts.

Recently, electric fence was installed to protect a heavily grazed area near a stream. Areas

near the streambed now look green and healthy and are ready to graze, according to Dean Brubaker.

The students will study the effects of the stream fencing to determine if the bacteria count in the water is lowered, what fish now exist in the waters, and other factors, according to the SCS representative.

Determine Water Intake

VIRGINIA A. ISHLER
PSU Dairy Extension
STATE COLLEGE (Centre Co.) — Inadequate water intake by lactating dairy cows will result in a decrease in milk production faster and more dramatically than any other nutritional factor.

Depending on a particular problem situation, it may be necessary to determine how much drinking water the milk cows are consuming.

Normally, milk cows will consume 4 to 4.5 pounds of water from both eating and drinking per pound of 4 percent fat-corrected milk (4% FCM) produced daily.

The following are the equations and an example on determining drinking water intake.

*Total water intake (lb./day) =
(4 x dry matter intake)
+pounds of 4% FCM + 25.6
Drinking water intake (lb./day)
= Total water intake--ration water.
Holstein cows are averaging 1,350 pounds and producing 57

pounds of 4% FCM. Total dry matter intake is 43 pounds. The moisture content of the ration is 55 percent.

Total water intake
=(4x43) + 57 + 25.6
=254.6 pounds of total water intake daily or
=30.5 gallons (254.6/8.34) or
=4.47 pounds per pound of 4% FCM produced daily

Drinking water intake
=254.6 — 52.5**
=202.1 pounds of drinking water daily or
=24.2 gallons (202.1/8.34) or
=3.55 pounds per pound of 4% FCM produced daily

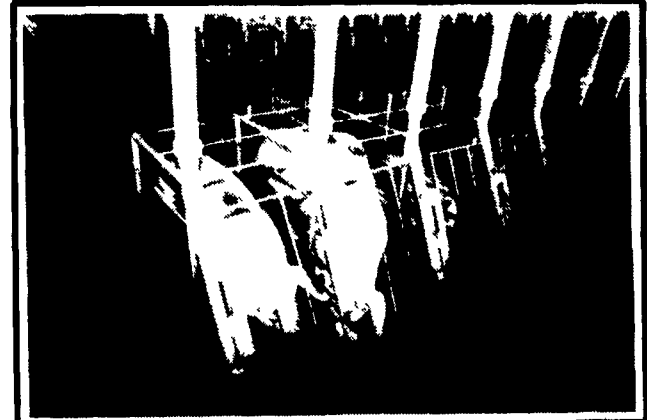
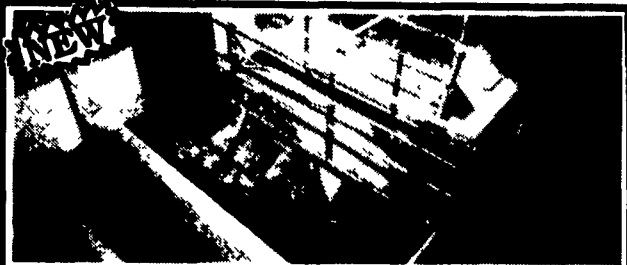
* Calculated using the modified Kertz equation.
**Ration water is derived as follows:
100 - 55 = 45% dry matter
43/45 = 95.5 total as-fed pounds of feed
95.5 x .55 = 52.5 pounds of ration water.



Terry Worall, left and Chris Richardson, Pequea Valley seniors, install wiring at the Jacob Fisher farm.

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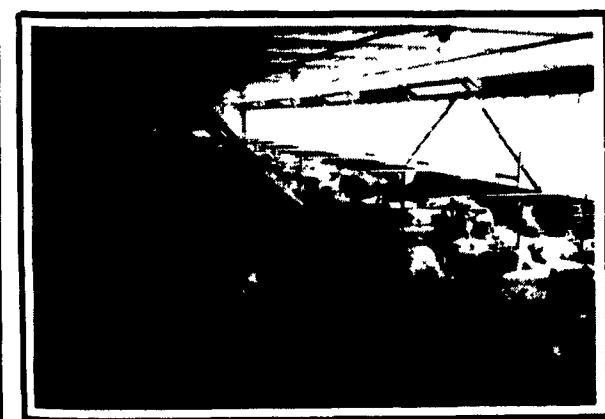
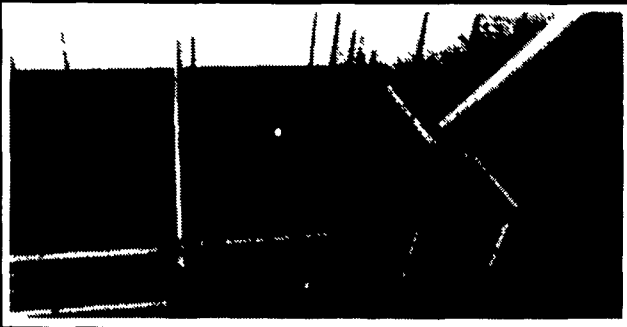


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