## With DHIA testing

# Computer tells farmer about his cows

When God invented dairy cows, he didn't think it was important to include built-in meters to measure how much milk they produced.

But to modern dairy farmers, how much milk each cow produces is important. Cows that don't produce much milk are better off as hamburger to be replaced by more productive ani-

In the days when cows' output went into a bucket, all the farmer had to do was look into the bucket to see how much milk each cow produced.

But in these days of large dairy herds and milk flowing from milking machines through piping into a bulk tank, that's not possible.

That's where the Dairy Herd Improvement Association and Sylvester Abraham come in. Abraham, of Garfield

the eight DHIA technicians in the upper Thumb. Their job, simply put, is to

Street, Cass City, is one of

measure the output and

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content of milk of the dairy cows of their clients.

DHIA is a cooperative organization, with boards of directors in each county and for the state, loosely affiliated with Michigan State University.

Abraham, 62, has been a DHIA employee nine years, after a varied career, including working at the Nestles plants in Ubly and Cass City, selling insurance and hauling milk. He was working at the now-closed elevator in Bay Port just prior to going to work with

It isn't mandatory that dairy farmers belong to the association, but it is to their advantage to do so, Abraham explained. "If you have a pipeline (milking system), you wouldn't have any idea what each cow produces." Farmers who use buckets could weigh them, but as mentioned, very few still do. (Abraham has two customers who use buckets.)

TESTING OF A DAIRY herd must be done once a

month, within three days plus or minus of the date done the previous month.

Samples must be taken during both the morning and afternoon milkings, which means Abraham and the other DHIA technicians must get up even before the dairy farmers do since they have to drive to the farms. One of his clients starts milking at 4 a.m. each day.

Those joining DHIA have two choices. The official test must be done by the DHIA technician. The unofficial test means the DHIA supplies the equipment, but the work must be done by the

The fee is based partially on herd size. For a herd of 50 cows being milked, it would cost the dairyman \$60 for the official test. If he did the work himself, what is known as owner-sampler system, it would cost \$37.

EITHER WAY, THE testing is the same.

The test instrument used is called a milk meter. Hoses connect it with the regular milk lines.

Milk coming from the

Kung of the University of

. Hawaii, cows fed sodium

bicarbonate gave more milk

and butterfat, rid them-

selves of excess body fat and were more feed efficient

than those without the feed

Cows fed sodium bicarb-

onate in the grain ration outperformed the control

group in butterfat produc-

tion. Those Holsteins fed 1.8

percent sodium bicarbonate

produced milk containing

3.55 percent butterfat on the average, while the control

group averaged 3.29 per-

cent. The group fed 2.8

percent bicarb in the ration

averaged 3.2 percent butter-

More milk was produced

by bicarb-fed cows; those

receiving 2.8 percent sodium

bicarbonate did best, aver-

aging 52.49 pounds of milk

per day. The control group

averaged 51.74 pounds per

In an effort to avoid a gas

shortage that could cripple

U.S. transportation, Presi-

standby rationing program

that is expected to pass in

both houses of Congress

is "silly" according to Ted Schulz of River Road in Cass

The main problem with

gas rationing is if it is used,

those people who need the

gas for their work will suffer

Schulz is a good example.

He is employed by Howard

Masonry of West Branch, a

construction firm that works

in the Saginaw-Bay City

area. In driving to work every day, Schulz uses a

good deal of gas even though

he drives a motorcycle to cut

Rather than implement

the forced conservation that

rationing would bring,

Schulz favors a sense of

conscientious conservation

He also claims that at the

moment there is no shortage

could be if foreign sources

decide to cut back produc-

by people now using gas.

However, such a program

very soon.

most, he said.

ingredient.

fat test.

milking machine flows into progestin, to determine the meter, off which can pregnancy. be read the number of pounds of milk the cow gave. titis must be thrown away A sample is drawn from the meter into a jar, after which the rest of the milk flows back into the pipe to

the bulk tank,

A sample is kept for each cow. A truck making the rounds picks up the bottled samples each Wednesday and Saturday and takes them to the DHIA office in East Lansing, where tests are run for butterfat content and, if the farmer is paying

extra, for mastitis, and

Both groups fed sodium

bicarbonate lost weight, in-

dicating increased meta-

bolic efficiency, Dr. Stanley

The ration dairy cows receive -- and how much is

fed -- determines the amount

of supplemental sodium bi-

carbonate necessary to in-

sure optimum production in

hot weather, Dr. Stanley

dairymen to start feeding

bicarb at a low level -- 0.25

pounds per day -- as a

, "Increase sodium bi-

carbonate levels at in-

crements until you hit an

optimum, then keep it there

when results are noted," he

Maintaining ration fiber

levels during high tempera-

ture periods will also help

keep butterfat tests from

dropping, concludes Dr.

explains.

Your Neighbor says

Gas rationing

is silly

general rule of thumb.

Stanley suggests

Milk from cows with masand the animal must be given an injection each time it is milked. The test shows whether the cow is on the verge of getting the disease,

has it or is getting over it. ABOUT A WEEK AFTER the tests are made, the farmer receives a computer printout from DHIA listing the test results for each cow.

The printout not only lists pounds of milk per cow and butterfat content, it also lists other information, such as when pregnant ones will calve (if the progestin test is performed), how much feed to give to the cows (if the

farmer submits feed reports), and sire and dam identification.

The information obviously can be quite useful. Based on it. Abraham advised one dairyman to get out of business, that he wasn't making any money milking cows. The man took the technician's advice.

BECAUSE HE IS IN A lot of milking parlors, he is often asked for advice. The question may concern feed, cows or equipment. When the situation warrants, Abraham will refer the dairyman to another expert.

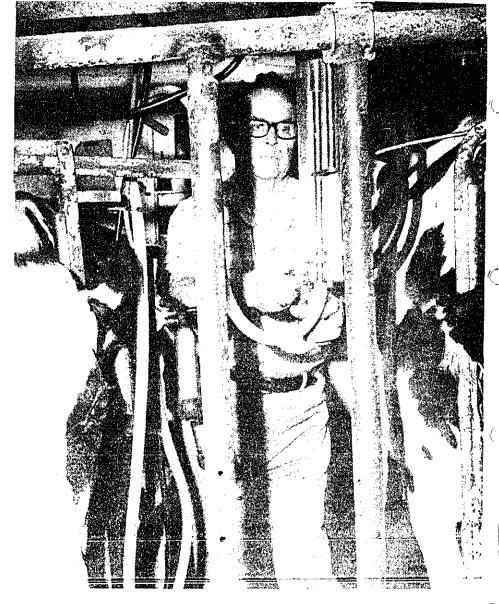
Abraham has 25 farmers on official test, and 15 on owner-sampler. For the latter, he only has to drop off

and pick up the equipment | and samples. The customers range as far away as Frank- i

enmuth and Caseville. His clients are loyal, and also persuasive. Abraham, a widower, was thinking of retiring last year, but his customers persuaded him to stay on.

In 1974, he won an outstanding technician award from DHIA and last year received \$200 in savings bonds for similar efforts.

He also had a role in another honor. In 1978, the cows of one of his clients, Harold Gremel of Canboro Road, Sebewaing, recorded the most pounds of milk percow of any dairy herd in the



MILK CHECK -- Drawing a sample into a jar from the milk meter is Dairy Herd Improvement Association technician Sylvester Abraham. The pounds of milk are measured in the large tube in the meter. Laboratory tests of the milk in the jar will reveal butterfat content and other information.

# Hot weather cuts milk yield

A dairyman milking on a hot, sweltering day not only has to fight the sweat dripping from his brow but a reduction in his herd's ef-

Hot summer weather is just around the corner, bringing with it production problems in dairy herds, according to Dr. R.W. Stanley, chairman of the animal science department at the University of Hawaii.

Dr. Stanley's studies at the University of Hawaii have shown that dairy cattle gain excess weight, consume less roughage and show a drop in butterfat test and milk production when temperatures soar above 80 degrees.

Although Hawaii is blanketed by 80 degree temperatures all year, dairy herds in midwestern and northern states also suffer from reduced production brought on by high temperatures and humidity in the summer, Dr. Stanley says.

Research has shown that acid builds up in rumens of cows subjected to these temperatures, he explains, and that reduces appetites and feed efficiency.

Digestive acids are normally neutralized by sodium bicarbonate, a natural part of cows' saliva. But under high heat conditions, additional sodium bicarbonate may have to be fed to keep rumen acids in balance. "Under high heat conditions we can modify the ration by dent Carter has proposed a feeding sodium bicarbonate to enhance fat test and get a more efficient and persistent animal," says Dr. Stan-

In an 18-week study done by Dr. Stanley and Dr. L.

## **Brooks** earns BA degree

David Brooks, son of Mr. and Mrs. Oscar Brooks of 6398 S. Seventh Street, Cass City, received his bachelor of arts degree from Calvin College in Grand Rapids May 24.

A humanities major, Brooks plans on working a year then going on to law school at Valparaiso University in Valparaiso, Ind.

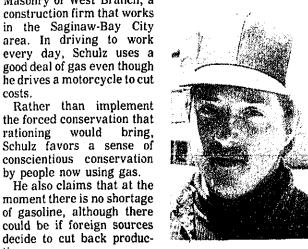
He is presently employed at M.C.'s, a sporting goods store in Grand Rapids. Brooks is a 1974 graduate of Cass City High School,

Another alternative to rationing is the increased production of alternative

Schulz said he thinks sources such as alcohol fuels, commonly called "gasohol," and fuels derived from wood and animal waste have been effective in tests and could be developed on a larger scale.

fuel sources.

With the present energy situation, everyone feels the pinch at the pumps but Schulz feels there is no need to go to the drastic measure of rationing.



Ted Schulz

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