

Penn State Cooperative Extension Capitol Region Dairy Team

DO YOU HAVE A FARM VACCINATION PLAN? **Dr. Arlen Mills Capitol Region Extension Veterinarian** Lebanon

Vaccination is an essential part of any infectious disease control program for dairy farms. But to be successful, it must be planned to meet the needs of each operation. It must be remembered that vaccines (we hope) increase the animal's resistance to disease, but that resistance can be overwhelmed if good management practices are not followed.

A question which comes up with several of the viral infections is whether to use a killed vaccine or a modified live type vaccine. This continues to be debated, but the consensus is that, especially for the first immunization that a young calf receives, modified live vaccines give superior protection.

Setting up a vaccination program means determining 1) which diseases to vaccinate



Dr. Arlen Mills

against, 2) which animals to vaccinate, and 3) when will the animal most need the protection that is to be provided? In light of this, a basic vaccination program that I recommend will be presented. Remember that this may need to be discussed with your veterinarian to determine what is

best for your farm.

On most farms, calves can receive their first immunizations at four to six months of age. This is where the use of a modified live vaccine is recommended containing BVD, IBR, P13, BRSV and lepto. Repeat this in four to six weeks to get those calves which did not respond to the vaccine initially and to ensure good **BRSV** protection.

On some farms with respiratory problems in the younger-age calves, I have vaccinated earlier, using this same vaccine or with just a modified live BRSV. Early vaccinated calves should be vaccinated at four to six months of age like any other calf, because we are never sure of the duration of immunity of early vaccinated

Calves should also receive a Clostridial bacterin as well at the four- to six-month age. I am recommending this more often now as we seem to be seeing more of the Clostridial enteritis is dairy herds and the potential for Clostridial diseases is always present.

A new vaccine has recently been released for leptospirosis. The vaccines that have the fivestrain lepto that we have been using for a number of years are known to be ineffective in protecting against the hardjo strain that is actually most common in cattle.

A new vaccine recently became available for the lepto hardjo strain. The vaccine must be given before exposure to lepto may occur. If infection may already be possible, pretreating with an antibiotic and then vaccinating is rec-

ommended. For the vaccine to be effective in cows, pretreatment with the antibiotic is necessary before or concurrent with vaccination with the new lepto hardjo vaccine. Since the new vaccine only contains the one type of lepto, we must continue to use the fivestrain vaccine to protect against the other lepto strains.

The next vaccinations are due as prebreeding boosters. At this time, repeat the modified live vaccine containing BVD, IBR, PI3, BRSV, and lepto. In herds which have had a Salmonella problem, start heifers on a core antigen type bacterin at this time

The next task is the dry cows and prefresh heifers. This is a good time to booster the cow's immunity to BVD, IBR, PI3. BRSV, and lepto. This will enhance the level of antibodies available in the colostrum for the calf and provide a boost to the cow's immunity at a critical time.

I recommend the use of a killed vaccine at this time, because you should have good immunity from the modified live vaccine given earlier and the killed vaccines are labeled for use in bred animals. There are modified-live vaccines labeled for use in bred cows, but they must have had the same vaccine given prebreeding or abortions may result.

The dry cows and prefresh heifers may also get a J5 bacterin-toxoid to prevent coliform mastitis. The number of doses will depend on the vaccine used. This is also the time to begin a Rota and Corona scour vaccine program if this is a farm problem. I prefer a scours vaccine that also contains E. coli and

DASHING

THROUGH

THE SNOW.

The storm will pass. And thankfully, so will a Kubota snowblow-

They are a cinch to operate using the tractor's 3-point hitch as a

hydraulic lifting system. Clear snow from driveways, roads or park-

ing lots. Break up and clear heavy drifts. A special heavy-duty rear-

mount snowblower is a recent addition to Kubota's B- and L-Series

YOUR FULL LINE KUBOTA PRODUCT HEADQUARTERS.

INVENTORY • PRICE • KNOWLEDGEABLE SALES STAFF

HEADQUARTERS

• INVENTORY • PRICE • KNOWLEDGEABLE SALES STAFF

ERVICE EXPERIENCEYOUR FULL LINE KUE

er. Try our snowblower attached to a Kubota B-Series or L-Series

tractor for a snow removal team that's hard to beat.

Clostridial antigens. Do not vaccinate within a week of freshening, or the week after freshening either. During this critical time, the cow's immune system is depressed to the point of not being able to respond to a vaccine.

I see a lot of variation in the vaccination of the lactating cows. If the young stock vaccination program is being done properly, then I find that the type of vaccine used in the adult cows isn't as critical. Some producers are using a modified live vaccine as a booster for all fresh cows prebreeding. Just remember to read and follow label directions care-

Many producers are using killed products in the lactating cows successfully. If the whole herd is being vaccinated at one time, vaccination should be done twice yearly. Vaccinate in the fall and again in the spring. Discuss with your veterinarian the pros and cons of using a modified-live vaccine vs. a killed product.

In the last several years, I have seen more and more respiratory problems in adult cows. Switching these herds to a vaccine that had a live BRSV fraction in the lactating cow booster seemed to be helpful. These herds had not been using a modified live vaccine in the young stock, which I'm sure is part of the problem.

A successful vaccination program takes careful planning. The program must be scientifically correct and supported by good management practices.

'Great Holstein Roundup' Under Way

BRATTLEBORO, Vt. — Holstein Association USA, Inc. has announced the beginning of the

strong genetic base for the breed in the future by preserving today's top genetic information.

This fall, Holstein Association

"Great Holstein Roundup." The goal of the "Great Holstein Roundup" is to ensure a

USA is searching for any registered Holstein that may have been sold without an

ownership transfer, regardless of purchase or sale date.

An ownership transfer officially records the animal's current ownership with the association. The registered Holstein's ancestry and lactation information is beneficial in making profitable breeding decisions, both for that specific animal and for her offspring. Without a transfer, the valuable genetic information will be lost for herd owners and the dairy industry.

Every herd will sell some day, whether planned or due to some unforeseen circumstance. The transfer guarantees a higher price for the registered Holstein at the time of sale. Registered Holsteins continue to give buyers a high rate of return for a minimal investment, in addition to building a strong genetic base in their herd.

Holstein Association USA, Inc. encourages any Holsfein breeder who has purchased animals in the past to call (800) 952-5200 to find out how they can participate in the "Great Holstein Roundup."

Lancaster **Poured**

- Agriculture
- Commercial Residential
- Call for Prices On:
- NRCS approved Manure Storage Pits
- Basements Footers

Slide-out ash pan provides for convenient ash

• **Enjoy** the convenience and safety of an outdoor stove

Excellent Features . . .

you can always depend on!

removal and prevents excessive corrosion

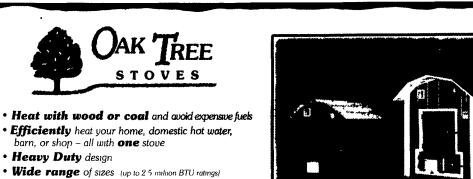
- Retaining Walls
- Concrete Pumping

Foundation Walls

Lancaster Poured Walls, Inc.

(717) 656-7370 • Fax (717) 656-7350





Manufacturer and Distributor

Oak Tree Stove Sales 632 Elysburg Road Danville PA 17821 Phone (570) 672-1096 Fax (570) 672 3221



TRACTORS & EQUIPMENT

LEBANON Fit. #7, Box 405, Lebanon, PA 17042 Pt. 419 1 Mile West Of Schaefferstown 717-949-2000 877-4Kubota

(458-2682

line-up.

So before the forecast calls

for snow, make a dash to

Keller Bros, Kubota.

S. PARTS

• SALES

• SERVICE

We Ship Parts

UPS

MONDAY - FRIDAY 8:00 - 5:00 SATURDAY 8:00 - 12:00 Serving Central PA Since 1921

PILOTS! KELLER BROS AIRPORT

877-3Kubota (358-2682)

M

Financing 7

Or Cash Discounts •

Available m

Call For Details

On Leasing

-ANCASTER

ancaster, PA 17601 At Ploute 30 &

Fruitville Pike

717-569-2500

1950 Fruitville Pike

Kubata

Visit our web site at www.kubotaparts.com • E-mail us at kubota@nbn.net