ARE CHICKENS **BABY DINOSAURS?**

> Roland M. Leach, Jr. Professor Of Poultry Science

Many of you may have seen a recent Dave Barry column where he asked the following question: "Which of the following is the nearest living relative of the dinosaur, Tyrannosaurus rex?": (a) a chicken, (b) a crocodile, (c) a lizard, (d) an elephant. Barry quoted The New York Times in

A LESSON

WELL

LEARNED...

LANCASTER

FARMING'S

CLASSIFIED

ADS

GET RESULTS!

announcing the answer — (a) a chicken.

Actually, The New York Times got its information from an article published in Science. In this report, scientists at the University of Wisconsin had the opportunity to examine the structure of young dinosaur bones discovered in Montana.

In order to understand the significance of this report, we need to review some basic concepts of bone growth.

In young growing animals and in man, bone grows by two mechanisms, both of which stop at sexual maturity. The first mechanism causes an increase in bone diameter as the result of the activity of the bone cells, osteoblasts and osteoclasts. Osteoblasts form bone on the outside of the shaft while osteoclasts remove bone from the inside of the bone shaft, making it look like a hollow log.

The second mechanism involves a thin plate of cartilage at the ends of the bones. The cartilage cells in this tissue go through a life cycle (birth, adolescence, maturity, and senility) every 24-48 hours. This process results in increases in bone length. When this process malfunctions, we see developmental deformities such as dwarfism.

The overall development of

Old Tyme Days Pictorial Granted station.

FAWN GROVE (York Co.) — In celebration of the 5th anniversary of the Fawn Grove Olde Tyme Days, the post office is offering a special pictorial mail cancellation.

A mail station will be set up at Olde Tyme Days by the post office. Stamps and special envelopes may be purchased at this station. Addressed and stamped mail may also be dropped off at this

thicker than the mammalian growth plate, having approximately four times the number of cells. Furthermore, there are some subtle differences in the arrangement of cells. Back to the dinosaur bones. Until the recent discovery of baby dinosaur bones in Montana, only bones from adults had been examined. Since adults no longer have

growth plate cartilage is similar in

birds and mammals. However, the

avian growth plate is considerably

growth plates, comparing dinosaurs with other species was impossible. Examination of the baby dinosaur bones showed that the structure of the growth plate closely resembled that of the avian species, not of lizards or mammals. These results strongly support a theory that there is a close evolutionary relationship between avians and dinosaurs.

These results provide thoughts on the future of our poultry industry. Most people associated with this industry recognize the tremendous progress that has been made in selecting broilers and turkeys for rapid growth rate and feed consumption. Will the poultry geneticists eventually breed a chicken that eats cars and lawyers as occurred in "Jurassic Park"?

All mail dropped off at this station will be stamped with a special pictorial cancellation especially designed for OTD and approved by the Post Office.

This special pictorial cancellation will only be provided the three days of the show, July 8-10. After the show, the cancellation will be destroyed by the post of-

TOUGH. SMOOTH CUT.



GROOMING MOWERS

- Air Tunnel design available in 60", 72" and 90" widths
- * Flat Deck design available in 48", 60" and 72" widths
- Tubular steel chassis absorbs shock
- Four wheel with front roller option
- Floating hitch and swiveling top link The Land Pride family. . . quality from the ground up.

Pennsylvania

Banger Implement 6 Flicksville Road Banger, PA 18013 215-588-5922

Betts Equipment \$139 Windy Bush Road, Rt. 232 New Hope, PA 18938 215-598-7501

C.B. Hoober & Son, Inc. Main Street Intercourse, PA 17534 717-768-8231

Cannonsburg Supply & Equipment Co. RD 1, Box 247 Cannonsburg, PA 15317

412-746-2500 Deerfield Ag & Turf Center, Inc. RR 2 Box 212

Watsontown, PA 17777 717-538-3557

Dunkle & Grieb, Inc. RR 2. Box 14 Centre Hall, PA 16828 814-364-1421

Eckroth Bros Farm Equipment Rd 2, Box 24A New Ringold, PA 17960 717-943-2131

Hines Equipment RT. 220, Belwood, PA 814-742-8171

Keller Brothers R7 Box 405 Lebanon, PA 17042 717-949-6501

1950 Fruitville Pike Lancaster, PA 17601 717-569-2500

Lost Creek implement, inc. Route 35, Box 123 Oakland Mill, PA 17076 717-463-2161

M.S. Yearsly & Sons West Chester, PA 215-696-2990

Marshall Machinery, Inc. Route 642 Honesdale, PA 18431 717-729-7117

Nicarry Equipment Co. RD 2, Rt. 61, 3 Miles S. of Leesport, Reading, PA 215-926-2441

Norman D. Clark & Son, Inc. Honey Grove, PA

Pikeville Equipment inc. RD 2, Oysterdale Road Oley, PA 19547 215-927-6277

Riternour Lawn Center

570 Evans City Rd., Rt. 68 West Butler, PA 16001 412-482-2131

Sollenberger's Equipment, inc. Everett, PA 15537 814-652-6990

Stoltzfus Farm Service Cochranville, PA 215-593-2407

Stouffer Bros Inc. 1066 Lincoln Way West Chambersburg, PA 17201 717-263-8424

Thomas L. Dunlap Rt. 220, Main St. Exit Jersey Shore, PA 17740 717-398-1391

Tractor Parts Co. 335 Central Road Bloomsburg, PA 17815 717-784-0250

Triple H pment, Inc. 2368 Robert Fulton Hwy. Peach Bottom, PA 17563 717-548-3775





Contracts available for hogs, finishing and sow units. For more information call 1-800-673-2580.

🤊 onstructed from heavy gauge materials, this crate is designed to reduce crushing with sow comfort in mind. The bowed bottom bars make for a comfortable 33" crate width when the sow lays down, yet the adjustable anti-crush bars eliminate the sow from carelessly dropping on the

piglets. This movement restriction does not hamper the sow as lays down, or wants to stand up, as the bars slide up and out of her way.

GALVANIZED!

INEXPENSIVE...

SSHIPS?

U.P.S.

MODEL 90

FARROWING

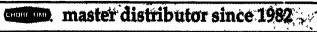
CRATE

INTRODUCING...

Strong Glass Reinforced Flooring With V-Bar Shaped Slat For Ease Of Cleaning. Available With Two Opening Sizes: Comfy II Junior For Pre-Nursery And Comfy II Senior For Grower And Finisher.

Authorized

Ph: (717) 569-2702





IN

STOCK!

Northeast Agri Systems, Inc.

Flyway Business Park Store hours Mon -Fri 7:30 to 4:30 Sat 8 00 to Noon 139A West Airport Road 24 Hr 7 Day Repair Service Lititz, PA 17543

1-800-673-2580



NOW OPEN FEDERALSBURG, MD. 305 UNIVERSITY AVE. 410-754-9434 STORE HOURS: 7:30 A.M. -4P.M. Monday - Friday

New Jersey

Caldwell Tractor & Equipment, Inc. 480 U.S. Route 46 Fairfield, N.J. 07006 201-227-6772

Frank Rymon & Sons, Inc. RD 3, Box 355 Washington, N.J. 07882 201-689-1464

Warren County Service Center 228 Route 94 Blairtown, N.J. 908-362-6916

Rodio Tractor Sales North White Horse Pike Hammonton, N.J. 08037

609-561-0141

Reed Brothers Petticoat Bridge Road. Columbus, N.J. 08022 609-267-3363