

Swine researcher peers into future

ST. LOUIS, MO — The future of the American swine industry is as bright as ever, says a noted swine researcher who discounts gloomy predictions being heard throughout the industry.

Citing tremendous advances made in hog production efficiency during the past 20 years, Bud G. Harmon of Ralston Purina claims that even more exciting developments during the next 20 years will change the face of hog production.

"Research is an ongoing process and the great strides made during the past two decades have brought us to the brink of some important breakthroughs," Harmon explains.

He predicts that by the year 2000 producers will achieve, on a regular basis:

- Commercially fed boars reaching market weight within 110 days.
- Separate, individually formulated rations for barrows and gilts, with feed efficiency of less than two pounds of feed, per pound of gain.
- Conception rates of 95 percent or better.
- 2.5 litters per year, per-sow in raised crates with wire floors.
- All sows farrowed between Tuesday and Thursday every week.
- Pigs caged from at least 10

pounds (at weaning) to 50 pounds and average daily gains from then to market of more than three pounds.

• Artificial insemination with rates exceeding 75 percent.

For the consumer, Harmon explains, this will mean that pork will remain a nutritious, economical food. For the hogman, these improvements will increase profit potential despite increasing competition and rising costs.

"I'm excited about the direction this industry is taking," he continues. "We all know there is room for growth and improvements. I've yet to meet a pork producer who's content in his current operation. That's the biggest reason swine research efforts have been in high gear."

"New findings in genetics and application of these principles are providing us with more efficient hogs that produce what the public wants to buy — and at the right price."

Feeding is one area in particular where Harmon feels there will be many exciting developments. "We're learning more about the value, interaction and relative efficiency of feedstuffs practically every day," he reports.

Harmon is quick to point out that not all of the research done on Purina's Gray Summit Research Farm is confined to nutrition.

"Some of the earliest research on cage nurseries in America, for example, was carried out here, as

well as in-depth studies on elevated farrowing crates," he says.

"The swine industry is going to

be lean, efficient and productive in the next century. I'm looking forward to it," he concluded.

Vetch supplies nutrients for irrigated corn

NEWARK, Del. — Irrigation makes it look so easy. Spin the pivot and the corn grows and grows. But there's more to growing irrigated corn than this, says University of Delaware Extension agronomist William Mitchell. There's an old rule that says you'll seldom get something for nothing.

"Today I saw a corn field that produced 141 bushels of dry shelled corn on water alone," reports Mitchell. "By design, a section of the field received no manure or fertilizer — just water."

Experience has shown that 141 bushels of corn will remove 140 to 150 pounds of nitrogen from the soil. "If, as in this case, no nitrogen was added, it must have come from another source — probably mineralized organic matter. And this is what, at the outset, makes irrigation look so easy," he says. The soil organisms that break down organic matter and release nitrogen to the cornplants are made more active by plentiful soil moisture.

In this respect, says the

agronomist, irrigation could be considered a soil-depleting practice. "If the soil organic matter level declines, yield drops won't be far behind," he predicts. "To prevent this occurring, we should add enough nitrogen to meet the current crop's needs. Then we must go a step further and return additional organic matter to the soil."

Sowing a cover crop of rye, barley or ryegrass this fall will accomplish this second goal. But there's still time to plant hairy vetch — a cover that not only will contribute organic matter, but also add some new nitrogen to your cropping system. Mitchell strongly

recommends Delmarva corn farmers do this.

Plant the vetch as soon as possible at 20 to 30 pounds of seed per acre. Drilling has been the most dependable method, he says. It also uses the least amount of seed.

If hairy vetch makes two or three inches of growth in the fall, it will usually survive the winter. Regardless of fall growth, most of the organic matter accumulation and nitrogen fixation from vetch will occur in the spring. By the first week in May, vetch should be 15 to 18 inches high and ready for plowdown, no-tillage corn, or harvest for hay or silage.



EVERY DAY IS SALES DAY AT E.M. HERR'S!



CORDOVAN TRACTOR BATTERIES

- 6 volt
 - 36 mo. warranty
 - w/trade-in
- As Low As
\$34.95

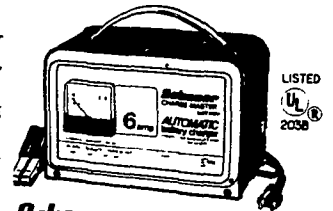
PUT YOUR JUNK IN A BOTTLE!



Receive 1 Gallon of **FREE ANTIFREEZE** When You Bring Us A Junk Battery. We reserve the right to limit quantities.

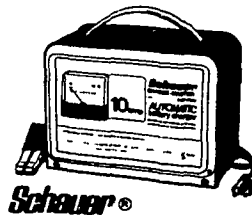
6 AMP or 10 AMP BATTERY CHARGERS

Solid State, Battery Chargers for cars, vans, pick-up trucks, tractors, travel trailers. Recharges average 6 or 12 volt battery in from 2 to 7 hours. Automatic circuit breaker protected.



Schauer

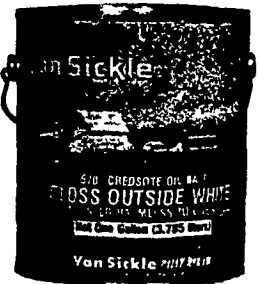
6 AMP #B6612
6 AMP 6-Volt/12 Volt **\$22.88**



Schauer

10 AMP #C6612
10 AMP 6-Volt/12-Volt **\$28.50**

No. 570 - CREOSOTE WHITE



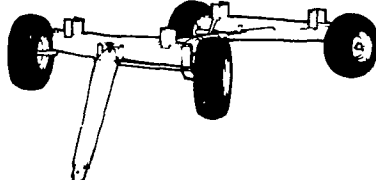
2 Gal. Pail
Reg. \$21.95
SALE

\$18.75

- Creosote/Oil Base Formula
- Gloss Finish
- Good Durability
- Weather
- Easy to Apply
- Lead Free — Harmless to Livestock
- Economically Priced
- Ideal for Barn, Fences and all Farm Out-Buildings

RUNNING GEAR

- Standard Tongue
- Adj. Wheel Base
- 6 Bolt Hubs
- Less: Wagon & Tires



10 TON Reg. \$599.95 ... Sale **\$539.95**
8 TON Reg. \$499.95 ... Sale **\$449.95**
6 TON Reg. \$465.95 ... Sale **\$429.95**



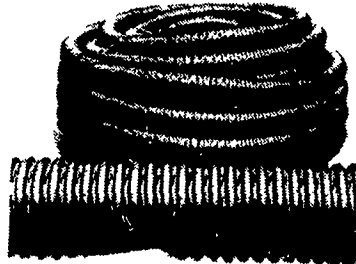
ASBESTOS FIBERED, 5 GALLONS, BLACK ROOF COATING

- Fills Small Cracks
 - Prevents Leaks
 - Protects Roof
 - 5 Gallon
- Reg. \$16.95
SALE **\$12.99**



ALUMINUM ROOF COATING

- Good for mobile home
 - Insulates summer & winter
 - Reduces noise
 - 5 Gallon
- Reg. \$38.95
SALE **\$33.99**



ADS FIELD DRAIN PIPE

ADVANCED DRAINAGE SYSTEMS INC. (ASCS Approved)

★ ★ SPECIAL FALL PRICES ★ ★

4" Solid or Perforated...Reg. 27¢ SALE **23¢** per ft. (100' or 250' Rolls)

6" Solid or Perforated...Reg. 63¢ SALE **58¢** per ft. (100' Rolls)

★ SPECIAL PRICES FOR TOWNSHIPS, CONTRACTORS, BOROUGHES
★ Also Available in 8", 10", 12", 15", 18"

★ CALL FOR QUANTITY PRICES

AUGERS

By MJM



- Includes spout & head

4"x11' **\$106.75**
4"x16' **\$131.55**
6"x11' **\$171.95**
6"x16' **\$212.95**
8"x11' **\$250.95**
8"x16' **\$307.95**

SPECIAL ON CORN CRIBS

We Will

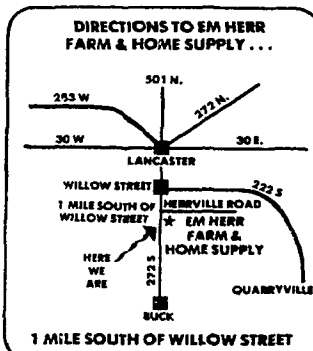
NOT BE UNDERSOLD!

If you find a lower advertised price on any corn crib (same capacity) we will match that price!

Two Sizes Left...

ALL CRIBS MUST GO!

WE UPS ANYWHERE — JUST CALL 717-464-3321
SALE PRICES GOOD THROUGH NOVEMBER 7



Store Hours
Mon.-Thurs. 7:30 A.M. - 6:00 P.M.
Sat. 7:30 A.M. - 5:00 P.M.
Fri. 7:30-9:00

