

The National Future Farmer

Owned and Published by the Future Farmers of America

SPRING 1955

Nobody out-farms you when you add **MM** power and **MM** tools



TO PLANTER

Hugs contours for uniform depth. Plants cotton, corn, peanuts, beans, other row crops.



RC ROTARY HOE

Crust breaker, weed killer—1 to 5-section models. Now with new 3-point hitch.



MO MOWER

Three-point or semi-mounted, 5-, 6-, 7-foot sizes. Two speeds let you set the pace.



2-Plow BF TRACTOR

Visionlined



TFA FIELD CULTIVATOR

Heavy-duty, spring teeth—8½ or 10½ foot. Tops for quack grass, bind weed, other uses.



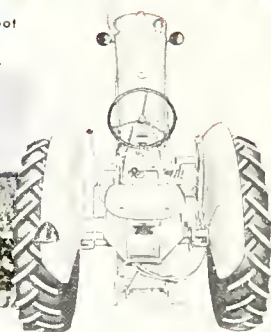
PQ 400 PLANTER

New PQ 400 Planter gives you real champion accuracy at 130 hills per minute.



JXB CULTIVATOR

Quick-On and Quick-Off, you save time all summer with this mounted 4-row cultivator.



3-Plow ZB TRACTOR

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DF PLOW

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11B DISC HARROW

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Sow every seed from flax to soybeans... with unbeatable Moline-Monitor accuracy.



4-Plow UB TRACTOR

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10-FT. WHEATLAND PLOW

Nothing works ground like MM Wheatlands—here hitched to powerful new 5-plow GB.



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Five Hi-Klearance bottoms powered by the new GB tractor—that's real profit plowing!



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5-Plow GB TRACTOR

Visionlined



LS-300 SPREADER

Get more value from manure with this new LS-300 Spreader, lowest-built in its size.



UNI-FARMOR—with Uni-Huskor

World Champions, won 1st, 2nd and 3rd in 1954 International Corn Picking Contest.



INVITATION:

These are just a few of the Money-Making MM Machines. See your MM Dealer or send a postcard for the facts on the new equipment you need this year.

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TUBELESS

Always buy tires built by Firestone, originator of the first practical pneumatic tractor tire

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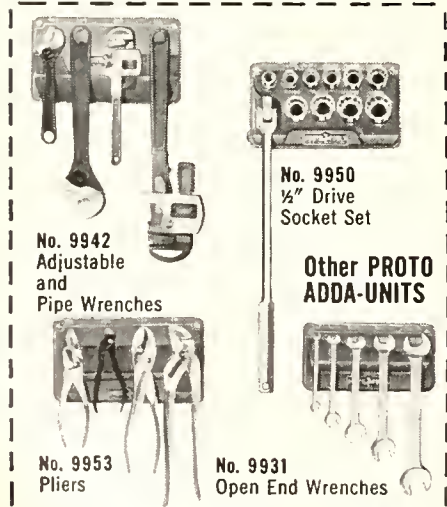
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Now, you can buy the PROTO Professional-Quality Tools you always wanted the economical ADDA-UNIT way — as your budget permits. Each unit is a set of highly useful tools in the handiest tool holder ever designed for a workshop. The holders are made of a bright red plastic and are custom molded to hold each tool snugly. They keep your tools where you want them—when you want them—and they add a sparkle of color that makes any workshop a showplace. Start your master PROTO tool set today by getting one or more ADDA-UNITS from your PROTO dealer. Send 10¢ for 68-page catalog of entire line to

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The National Future Farmer

Owned and Published by the Future Farmers of America

SPRING, 1955 Vol. 3, No. 3

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THE COVER PHOTO

By J. K. Coggin

This issue's cover photo shows a favorite Future Farmer pastime—fishing. It will probably send you scurrying to your favorite spot with worms and tackle. Freedom for such an outing is one of the blessings of farm life.

The pair caught in action are Wayne Styons and Josh Hardison, members of the Jamesville, North Carolina, FFA Chapter. On the farm, Josh (blue shirt) raises corn, peanuts, tobacco, and has four hogs for the county fatstock show. Wayne, a town boy, has the family garden and four pigs for the county show.

MAGAZINE STAFF

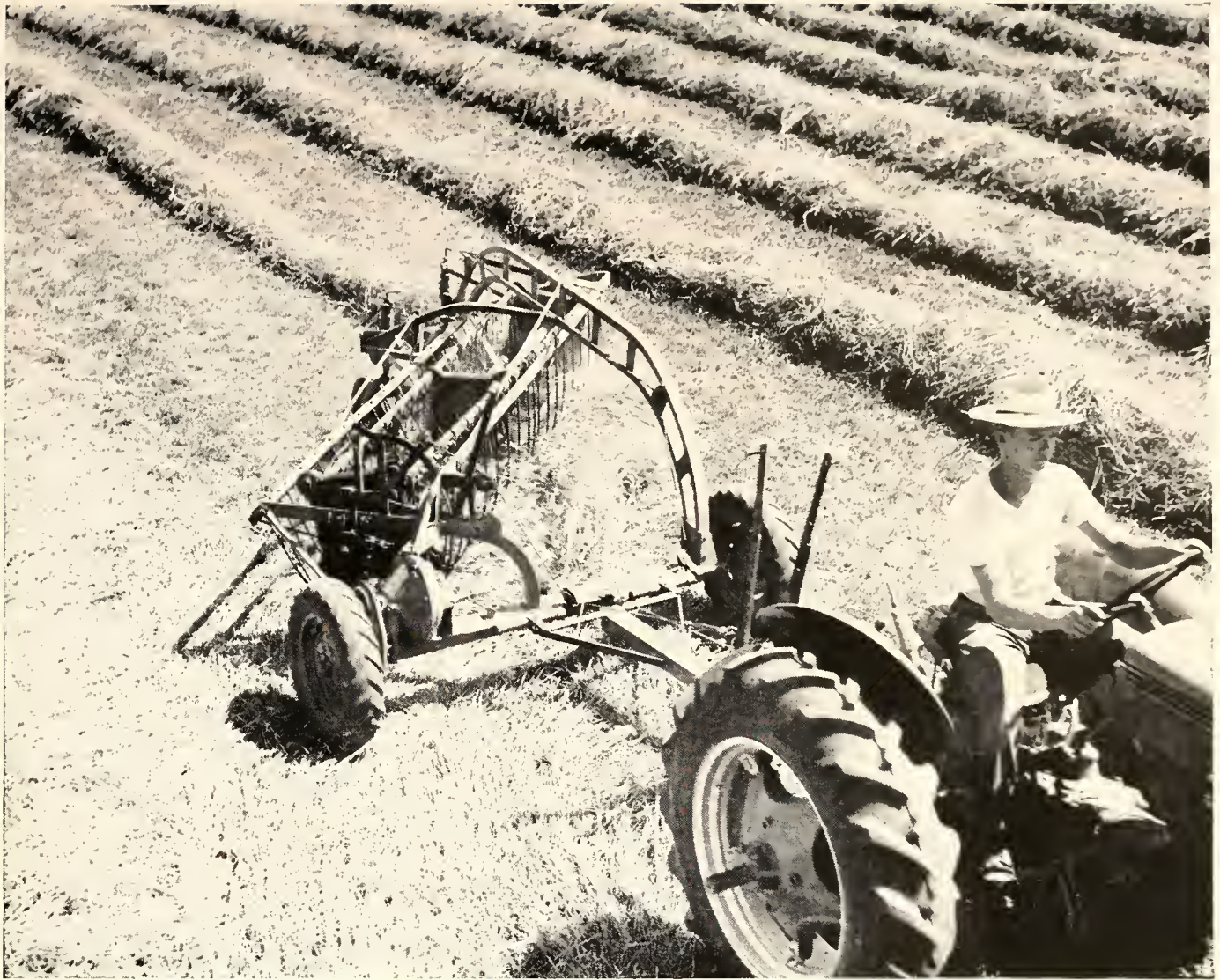
Box 29, Alexandria, Virginia

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CHANGE OF ADDRESS: Send both old and new addresses to Editorial Offices, THE NATIONAL FUTURE FARMER, Box 29, Alexandria, Virginia.



YOUR CHOICE of a high-wheel New Idea side-rake and tedder, or a low-wheel model. Suspension-trussing gives lasting strength and rigidity. Reel yields at both ends. Control levers can be handled from tractor seat. Bearings are self-aligning. This rake *makes* hay as it rakes!

See how New Idea makes leafy hay

When properly handled, hay is *made* in the windrow. The New Idea side-rake and tedder is the key tool in hay making because it actually controls curing. Here's how:

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You know that leaves contain the main feed value. Preserve the leaves, green, nourishing and unscared, and you easily double the feed value. The New Idea

side-rake and tedder is ideal for this job.

Ask For An On-Farm Trial

To test the hay-making ability of a New Idea side-rake, ask your New Idea dealer to bring one to your farm. Have him

show you how to adjust and operate it for best results. Do some raking yourself (and do some tedding by flipping the conversion lever). It's our bet you'll never let that New Idea rake get off your farm.

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Date of show _____

Alternate date _____

"What's In It for Me?"—color movie shows the value of the CAT® track-type Tractor on the farm. 16 mm—sound—20 min.

Date of show _____

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"Power for Protection"—color movie shows how to build dams, terraces, stockponds, clear woodland with farm power. 16 mm—sound—23 min.

Date of show _____

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"Standard West Coast Equipment"—report on farming in one of the most intensively tilled areas in the United States—the West. 16 mm—sound—23 min.

Date of show _____

Alternate date _____

"A Thing or Two"—features preventive maintenance of small diesel engines. 16 mm—sound—23 min.

Date of show _____

Alternate date _____

"The Big Track"—a documentary-type movie on the track-type tractor. 16 mm—sound—28 min.

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"What's in a Name?"—gives you the close-up story of building and improving diesel tractors. 16 mm—sound—20 min.

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Organization _____

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DIESEL FARM TRACTORS • TOOL BARS
IMPLEMENTS

EDITORIAL

A Fellow Told Me...



The National FFA Board of Directors and the Board of Student Officers decided to publish *The National FUTURE FARMER* six times a year, beginning next January. Yes sir, that's settled for sure, and I thought you would like to know it.



You know I mentioned in my last report to you that this might happen. Funny thing, though, it just might *not* have happened if it hadn't been for you fellows. All those letters you sent in supporting the idea really were impressive.

Say, I really got a laugh when I stopped by the magazine office the other day. You know, the members of the staff had asked for suggestions for naming the Green Hand. Well, you

sent them all right. The list I saw was as long as your arm—and the total of the votes was up in the thousands. But the funny part was that four names were tied for first place.

So here's what I suggested. Just have a run-off between the top four—**Dwight, Eghert, Johnnie, and Charlie.**

So pick your choice and send it in to the magazine. Remember, too, that every subscriber gets one vote. So get as many subscribers to vote with you as you can. Here's luck to you.

Dwight

Eghert

Johnnie

Charlie

It
takes
a
B-29

Speaking of letters, if you've noticed a change in the box number of the magazine, it's because so many of you are writing in that the post office has provided the magazine with the biggest box available—**Box 29.**

Here's the latest I've heard about contests. A livestock judging contest with \$20,000.00 in prizes is announced on page 33 of this issue by one of our advertisers. With this kind of dough being offered in prizes, the magazine staff decided to hold off 'til Fall for the magazine's next big livestock judging contest. But there'll be another cartoon caption contest in the Summer issue.



I'm your Boy.

Hank

NEW **DODGE** "Job-Rated" TRUCKS

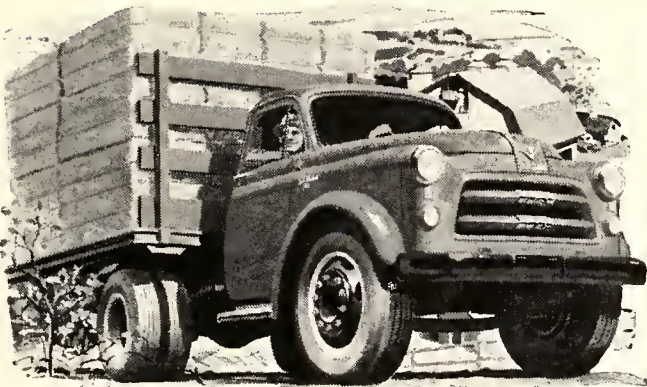


OFFER

A better deal for the man at the wheel

A BETTER DEAL IN CAB COMFORT!

New easy-chair seats, big one-piece windshield, more vision area than any leading make. New cab sealing against dust, drafts. New two-tone interior styling.



A BETTER DEAL IN STEERING EASE!

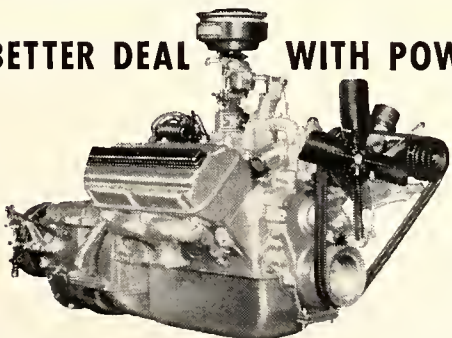
New steering system gives top maneuverability on or off the road. And Dodge continues to offer shorter turning than any other comparable trucks.



A BETTER DEAL IN LOADING HEIGHTS!

Pick-up floors as low as 23 $\frac{3}{4}$ inches from the ground . . . to give greater loading ease. Lower running board for easier entry. Lower hood for added visibility.

A BETTER DEAL WITH POWER-DOME V-8's! Great new 145-hp. Power-Dome V-8's make Dodge $\frac{1}{2}$ -, $\frac{3}{4}$ -, and 1-ton models the world's most powerful low-tonnage trucks! Power-Dome V-8's are also available in 1 $\frac{1}{2}$ - through 3 $\frac{1}{2}$ -ton models!



TESTS PROVE POWER-DOME PERFORMANCE! Under AAA-supervision, a Dodge pick-up with Power-Dome V-8 averaged *over 22 miles to the gallon* in a 714-mile economy run . . . *climbed Pikes Peak in 20 minutes, 46.8 seconds!* Proof of unequalled power-with-economy! Another Dodge pick-up went 50,000 miles in 50 days without repairs to prove Dodge trucks' rugged construction! See your dependable Dodge truck dealer today!

DODGE "Job-Rated" TRUCKS A PRODUCT OF CHRYSLER CORPORATION



Hoot, Mon!

Gas savings
go sky high
with **HOT TIP**
AC Spark Plugs!



AC SPARK PLUG DIVISION
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Gasoline for farm trucks, tractors, cars, field machinery and stationary engines runs into real money on a mechanized farm. That's *one* good reason why you ought to standardize on AC Hot Tip Spark Plugs. These are the new AC plugs with thin, recessed insulator tips that heat up *fast* to burn away combustion deposits that quickly foul up ordinary plugs — cause them to misfire, waste power and waste fuel.

New, lively AC Hot Tip Spark Plugs stay clean longer, boost power, save gas. There's an AC Spark Plug with the exclusive Hot Tip feature specially engineered for just about every engine on any farm. See your AC dealer. And, say, watch **BIG TOWN** on NBC-TV.

STANDARD FACTORY EQUIPMENT ON CADILLAC • CHEVROLET • PONTIAC • OLDSMOBILE • BUICK • GMC

Looking Ahead

PICKED POTATOES

According to USDA tests, potatoes will be coming to market pre-selected for the consumer as to best use—baking, boiling, frying or chipping. By dumping the Irish staple into a salt solution of one pound of salt to one gallon of water, scientists have found that potatoes that float are likely to be of low quality for baking, boiling or chipping. These which sink are likely to be of high quality. This could all mean that the consumer may soon be able to buy potatoes clearly labeled for whatever use they had in mind.

RANGE TEST

At Guthrie, Oklahoma, researchers have found that by fertilizing the native grasses on cleared virgin brushland pasture, beef gains can be boosted 58 per cent. On eroded range that has been reseeded to native grass and fertilized, the boost in gain was 54 per cent. The scientists, H. A. Daniel of USDA and H. M. Elwell of the Oklahoma experiment station, applied 300 pounds per acre of superphosphate drilled 4 inches deep every three years, and 33 pounds of nitrogen every May. Hereford steers were used in the experiment. Seed yield was also increased by 85 per cent after the grazing season.

SUN SYSTEM

There is a good possibility that farmers will be among the very first to benefit from the increasing attention to power and energy from the sun. Solar energy may sound like a far-fetched idea at the moment, but it is a lot closer than you think—some folks say only five years away! The reason scientists are thinking of the farmer in developing solar systems—and they are working full speed on them right now—is that one of the first requirements is space. City dwellers just don't have it. It is said that *right now* a solar system could provide about three-fourths of the heat for a home, plus hot water, and provide power for a cooling system. Home heating units will come first, probably, and in about five years!

IRRIGATION NOTE

In South Carolina last year, cotton under irrigation produced 1,300 to 2,150 pounds of seed as compared to 660 pounds without irrigation. Irrigated corn made 69 to 91 bushels—non-irrigated made nothing! Soybeans made 32.7 bushels with irrigation—without, 7.3. Peaches irrigated made 4.7 to 6 bushels per tree of large fruit, while trees not irrigated made 3.7 bushels of smaller fruit. This report comes from Clemson Agricultural College.

THINGS TO WATCH

DAIRY PRODUCTS: Since there are fewer cows and 2-year-old heifers on farms than there were a year ago (1 per cent), the milk surplus will probably be reduced slightly. Although production levels will be about the same as last year, consumption is up.

POULTRY: Things look pretty good for egg and broiler producers. Egg production will be low next fall—fewer layers being replaced on farms—so prices will probably be good for eggs. Broiler prices have been up recently, and because of this broiler production will be up for the spring market. This may mean slightly lower prices.

GENERAL: There appears to be little or no chance in sight for the farmer getting more of the consumer's food dollar. Forecast is for the same ratio as in 1954—43 cents to the farmer, 57 cents to the marketing agencies.

'Stilbosol' now helps fatten 38% of nation's cattle*

More than one-third of the beef cattle fed for market in the U.S. today are eating 'Stilbosol'-fortified rations.

This is said to be the most rapid adoption of a new practice in the entire history of American agriculture—all within the short period of 3 months.

BENEFITS ARE CONVINCING

Leading cattle feeders are convinced of 'Stilbosol's' value—for good reasons.

With 'Stilbosol'-fortified supplements, gain increases have averaged about 20% with increases of as much as 37% commonly reported. Feed costs were slashed up to 20%, and cost of gain cut from 2 to 4 cents a pound. Profit margins per steer jumped as much as \$25 to \$30.

Rations with proper levels of 'Stilbosol' have put an extra $\frac{1}{2}$ to $\frac{3}{4}$ pound of gain per day on fattening steers. Total gains have hit $3\frac{1}{2}$ pounds per day for sustained periods of 70 to 112 days.

HELPS WIDEN MARGINS

'Stilbosol' is helping take the squeeze out of close feeding margins. Profit-making results are possible under a wide range of feeding programs for market cattle from 600 to 1200 lbs.

Benefits of this kind didn't escape America's cattle feeders. That's why so many veteran cattle feeders became convinced so quickly. That's why 38% of the nation's cattle are growing faster on less feed with 'Stilbosol' in their rations.

* Estimate based on USDA figures for cattle on feed January 1, 1955.

Stilbosol

(Diethylstilbestrol Premix, Lilly)



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You "belong" in
Lee Riders



Reader Roundup

Imogene, Iowa

As I am entering another contest, I thought I would drop a few lines to tell you what I think of the magazine. I like all your contests, but I admit the Livestock Judging Contest was my favorite. When you hinted you might have another, I was very interested, as I am sure others must be. I was very interested in the outcome of the Brahman Bulls in the last contest. There are very few in this part of the country, used for crossbreeding.

I was glad to see the number of issues may soon be increased. This will be a very welcome addition to all members of FFA. I hope that before long you will have it on a monthly basis. All of the articles are very interesting and educational.

At our local Chapter, the Davis Rodgers, of Shenandoah, Iowa, a year's subscription is included in our dues. I can assure you *The National FUTURE FARMER* is one magazine that doesn't lie around a week or two up fore I read it. I, for one, will keep up my subscription after I graduate, for it will help me keep in touch with the FFA, which is one organization that is worth keeping up with after you have passed on through the ranks of the FFA. I am sure that any former member who keeps up with the FFA will agree.

Richard Lorimor

Slippery Rock, Pennsylvania

I would sure like to put my OK on your magazine, along with all the others in the "Roundup." I think you are doing a bang-up job, and find everything interesting, even if I have been out of school for some time. Congratulations!

Ronald F. Snyder

Linn, West Virginia

I am a member of a gold emblem chapter of Future Farmers at Troy, West Virginia. I read my (*The*) *National FUTURE FARMER* through from cover to cover, also the rest of the family do, too. Dad said he wished it came every month.

I am entering your Cartoon Caption Contest. Thanks for these opportunities on these contests.

Leo Radcliff

Presque Isle, Maine

I am an FFA member, go to school at Presque Isle High School, am in the ninth grade. I enjoy your magazine very much. So does my dad. You and your staff are doing a wonderful job in publishing this magazine that any one can be proud to own. Congratulations to a magazine that I sincerely hope will be a monthly.

(No name listed)

Napton, Missouri

Just a few lines to let you know I enjoy your magazine very much and my parents enjoy it also.

I hope your plan goes through to increase the number of copies per year.

I enjoy the contests, so am enclosing an entry for your "Cartoon Caption Contest."

David Kirchhoff

Yuma, Colorado

I have been receiving *The National FUTURE FARMER* for the last two years, and it is doing a great work in helping fellows all over the nation in their projects and farm life.

I live in town, but am a member of the FFA. I plan on renting a farm as soon as I graduate from high school.

Keep up the good work on this magazine!

Danny Lewien

Ashland, Nebraska

I would like to send you a joke for your column.

I like your magazine very much. I went to the National Convention, and the only complaint I had was that the milk machines were always empty! Your friend,

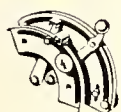
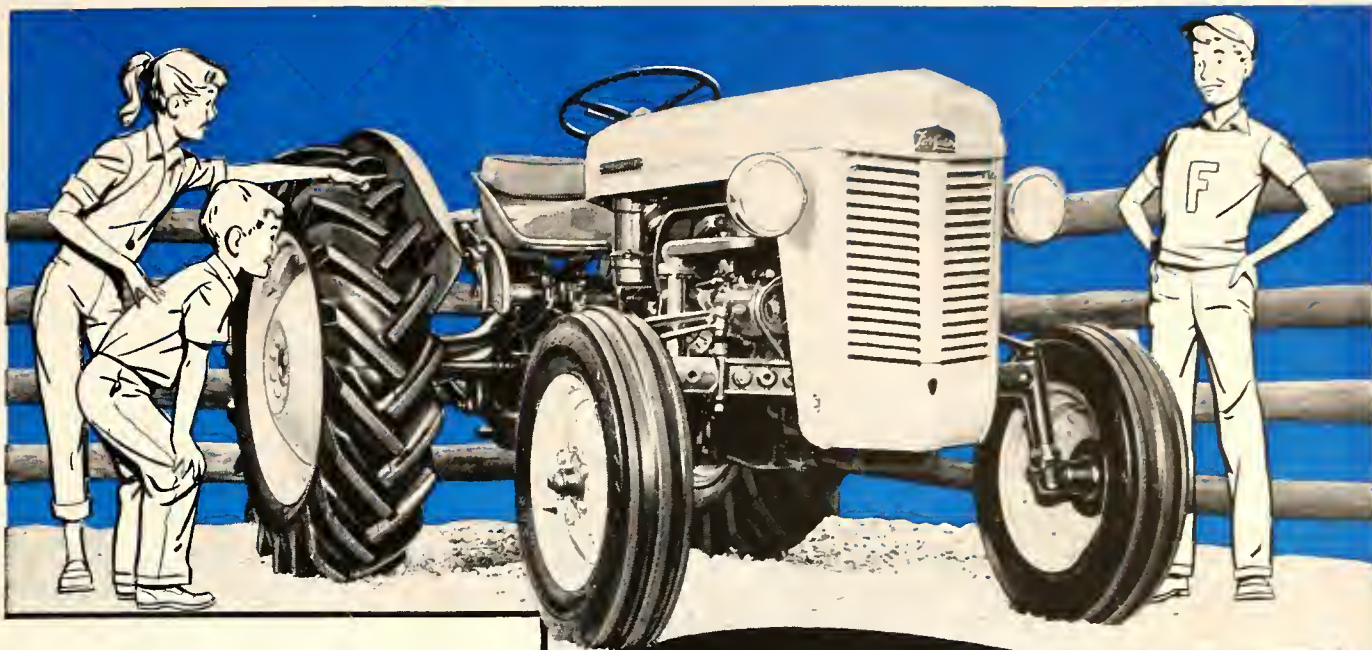
Roger Suehns

Hamilton, Montana

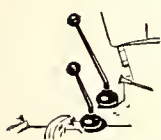
I enjoy your wonderful magazine and can truly say "it's great." I would like to have the names and addresses of other FFA boys with whom I can correspond. Keep up the good work and I hope that soon this magazine may come more frequently.

Larry Daw

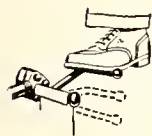
You fellows who want to write Larry, his full address is Route 1, Hamilton, Montana.—ED



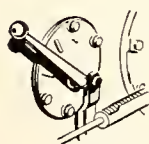
1 QUADRAMATIC CONTROL is a new Ferguson exclusive that lets you raise and lower implements, select draft and maintain a uniform working depth, adjust the hydraulic system's speed of response, hold implements rigidly at desired position—all on the same quadrant, and with finger touch.



2 DUAL-RANGE TRANSMISSION provides wide range of speeds—6 forward, 2 reverse—to allow you to fit the speed *exactly* to the work, whether transplanting, spraying or doing close cultivation in the 35's "creeper" gear. Or plowing or discing in high-range first. Or driving along the highway at rapid transport speeds up to 14 mph.



3 NEW "2-STAGE" CLUTCHING controls *both* tractor transmission and PTO with a single pedal for operating such machines as the baler or forage harvester continuously, regardless of tractor starts and stops. Halfway down on pedal (you don't guess, you can *feel* it) disengages transmission *only* while PTO continues to operate. All the way down stops both transmission and PTO.



4 VARIABLE DRIVE PTO is not *ordinary* live power take-off. With the PTO shift you select either the drive that's in ratio to the *ground* speed of the tractor, for such jobs as raking, planting or fertilizing—or, the drive that's in ratio to *engine* speed, for harvesting, foraging, baling or other machine work, demanding continuous PTO operation.

FOR YOUNG MEN WITH A FUTURE

The Great New **FERGUSON 35** gives you positive 4-Way Work Control

Take a good look at the first and only tractor ever to out-perform the famous Ferguson "30". It's the new Ferguson "35", and it *does* out-perform any tractor in the field.

It gives you far wider *range* of control—without ever leaving the new "Foam-Float" seat.

It gives you more selective control—to throw weight and power where you need it—to zoom through tough jobs and tight spots, with power to spare.

It gives you more benefits from the Ferguson System—which more closely than ever couples implement and tractor into *one* responsive, flexible unit.

It is truly a tractor with young ideas. Your local club will surely want to see and drive this new tractor. Contact your local Ferguson Dealer . . . today . . . and he'll be glad to arrange it for you. Or stop in and see it at his place of business.

OTHER OUTSTANDING NEW FEATURES

Low rpm torque • Jumbo-size, 14" x 2" brakes • Both brake pedals same side • Increased engine power • Tractormeter • Recirculating Ball-Nut Steering • Compensating Overload Release • "Foam-Float" Seat • Safety Brake Latch • Also available, power spaced wheels

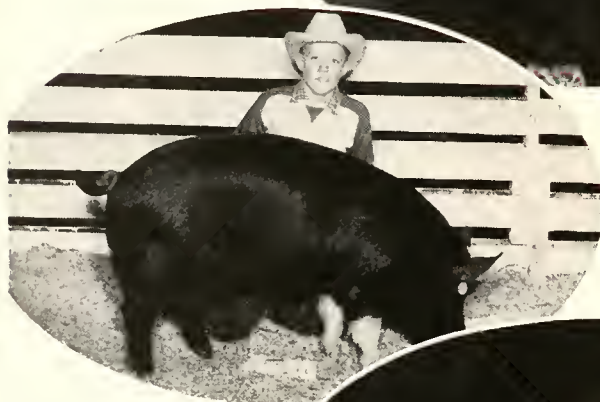
go years ahead / **GO FERGUSON**



Always in the Winner's Circle

Every one of these Calf Manna Fed animals—a Champion at the Chicago International.

"Solt", champion Shorthorn steer, junior division and reserve Grand Champion in open show. Owned by Barbara Clousen, Spencer, Iowa. Calf Manna Fed from Birth to Show.



"Blackie", Grand Champion Borrow, owned by Dick Nosh, Shorpsville, Indiana, who says "I like Calf Manna—it gets my hogs off to faster starts".



"Jet Pilot", first Ram Lamb and Grand Champion Shropshire. James A. Osborn, Owner, of Morion, Indiana, says: "I keep my entire flock fit with Calf Manna".



It's easy to raise prize winning livestock with Calf Manna and with the simple management programs outlined in Albers special booklet designed for Junior feeders.

Send in the coupon below today for your free copy of this valuable booklet.

ALBERS MILLING COMPANY

Dept. 4132 314 Fairfax Bldg. Kansas City 5, Mo.

Please send my free copy of "Raising Better livestock with Calf Monna and Suckle."

Name _____

R.F.D. or _____

Street _____

City _____

State _____



Reader Roundup

Lapeer, Michigan

I am a member of the FFA Chapter at Imlay City, Michigan. I liked the letter in Readers' Roundup (Winter issue) from George Dean, of Terre Haute, Indiana.

I believe if many more city people could receive *The National FUTURE FARMER* it would help them to appreciate and understand agriculture better, as well as informing them of young farmer activities and our organization, the FFA.

All of our Chapter members receive *The National FUTURE FARMER* and like it. I would like to see *The National FUTURE FARMER* become a monthly magazine.

Gary Nelson

Vinson, Oklahoma

I received my Winter issue of *The National FUTURE FARMER* magazine today and . . . I would like to congratulate you and the magazine staff on the job in making this publication our very own.

Oran Nunemaker
Voc. Agri. Instructor

St. Louis, Missouri

Your Winter edition arrived yesterday and I went over it last night. I would certainly have been proud to have had such a magazine when I was in FFA work!

Elmer C. Denis
Industrial Research Division
Doane Agricultural Service, Inc.
(Former National FFA Officer)

Burlington, Vermont

The Winter issue of the magazine, just received, measures up to the high standards of quality of all previous issues, and we are particularly pleased to have a Vermont scene on the cover of this issue. You are to be congratulated for the fine job you are doing with the magazine.

Cola D. Watson
State Advisor
Morrill Hall

Sasibo, Japan

Today I was walking through the mess hall and saw lying on the mess table a copy of *The National FUTURE FARMER*. I was very surprised and pleased.

First of all I was very surprised because I didn't know the Future Farmers published a magazine. But after I had read the magazine I was very happy about seeing it.

To explain my interest in the magazine, let me say this: I come from Montana and have lived on a farm all my life with the exception of the last 40 months. That time I have spent in the Navy.

B.F. Goodrich Power-Grip tractor tires



"TOPS FOR 'FULL THROTTLE' WORK"

Charles Cox (left, on tractor) farms 360 acres near Milton, Ind. He raises corn, wheat, oats and hay, markets 600 to 700 hogs a year. His sons work 2 adjoining farms of 215 acres. Cox's tractors get a workout on these farms, particularly since he reports his sons know only one speed—full throttle. B. F. Goodrich Power-Grip tires are tops, he says, in this severe service.

Rugged Power-Grip cleats are higher and longer, have a bigger face area to press against the soil. And there are more of them. Count the cleats on leading makes, and time after time you'll find that in the same size the B. F. Goodrich tire has more cleats. You get full traction in forward or reverse, work more land in less time.



"I never need chains with Power-Grip tractor tires"

"I've used other tires, but none come up to Power-Grip," says C. A. Moore (above left with helper, Dick Adolf), whose 960-acre farm is near Levant, Kansas. Power-Grip cleats are square cut at the shoulders to defy slippage. They're reinforced at the base to wear longer, and they're higher for deeper penetration. No other tire is wider than the B. F. Goodrich Power-Grip tire. No other tire gives so much power and wear for your money.



"Super Hi-Cleat tires really hold on slippery ground"

W. C. Barretr uses his Super Hi-Cleat-equipped tractor for plowing, harrowing and cultivating on his Monticello, Florida, farm. Low-cost Super Hi-Cleat tires "have done everything for me you can ask a tire to do," he says. See your B. F. Goodrich retailer for all your farm tire needs. His address is listed under Tires in the Yellow Pages of your phone book. Or write *The B. F. Goodrich Company, Tire & Equipment Division, Akron 18, Ohio.*

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Reader Roundup

While home in Montana I took an active interest in the Future Farmers of America and gained a wonderful experience I shall never forget.

I joined the Future Farmers in 1947. Upon the completion of my sophomore year, I was elected chapter president and held the same office till I graduated from school. But I was also elected State President upon completion of my junior year, and held that office until I graduated from high school. Also I attended two national conventions in Kansas City. On my second trip I served on the officer nominating committee.

So you can see I really got to know Future Farmer work and really liked every minute of it. I never got to try for American Farmer as my Navy life came first.

When I get out of the Navy next Fall I plan on returning to farming in Montana. I will always try to help the guys in the Future Farmers so they may have the chance I had to see how wonderful an organization it really is.

The last time I was home, which was December of 1953, I had time to stop in the State Capitol and visit with my State Advisor, Mr. A. W. Johnson. At that time we talked over all the new comings to Future Farmer work. The progress you are making is wonderful. I only hope the world situation cools off so you may continue to make progress.

It would be a happy day for the world if only the countries could join together to help each other as the Future Farmers have joined together. Now the Future Farmers have gone across the border and are joining with the other countries. I was always told while in school and always believed the Future Farmers of today are the leaders of tomorrow. What a wonderful way to start our leaders of tomorrow. By their joining with the future leaders of the many other countries, maybe, in this small way, we will find one of the steps to lasting peace.

In closing I'd like to say thanks a lot for publishing the magazine. All the Future Farmers here aboard ship really enjoyed getting it. It's a great morale builder while overseas as well as in the States. Lloyd R. Bokma
U. S. S. Chowanoc,
U. S. Navy

Sailor, it's fellows like you who have made your national magazine possible. And judging from your experience it is surpassing even the fondest hopes of those of you who willed it.

To have you write us is a pleasure and honor, and I'm sure your letter will be an inspiration to everyone who reads it.—ED



GO OUT in your best piece of corn some still, hot night in summer, and listen. No—your corn can't talk out loud. But corn on fertile soil that's had enough fertilizer and rain makes a faint pop and crackle and rustle as it expands its joints and grows fast in the hot weather it loves. Scientists have picked up these tiny, muted sounds of growing corn and amplified them to a roar—the voice of corn at work.

It takes lots of growing power to shoot up 14 to 18 thousand ear-bearing cornstalks per acre, year after year. As the corn is hauled off, soil minerals and nitrogen go in it. They must be replaced, and fertilizer does this job profitably.

About 140 pounds of nitrogen are

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needed to grow 100 bushels of corn per acre. Many good farmers use this much nitrogen, and get 100 bushels or more per acre, year after year. Yet the nation's average yield of 39.6 bushels shows that not all farmers feed their corn well. Even Wisconsin, the leading state in yield, has less than a 60-bushel per acre average.

On \$100-per-acre land, crop experts figure it takes 30 to 40 bushels of corn to cover growing costs. Profits start only when you build yields above this level. On high-priced land, it may take 70 bushels per acre to cover costs.

Since 2 pounds of extra nitrogen usually produces an extra bushel of corn per acre, you can easily figure how much nitrogen it pays you to use. Usually it's a good plenty. Some farm experts figure every \$1 for corn fertilizer pays \$5 in extra yields.

If your yields are low, it will pay you to use plenty of nitrogen to get up to profitable yields. If your yields are high, you need lots of nitrogen to maintain those high yields that pay off. Whether you've taken the low road or the high road in the past, let extra nitrogen put you on the pay road this season.

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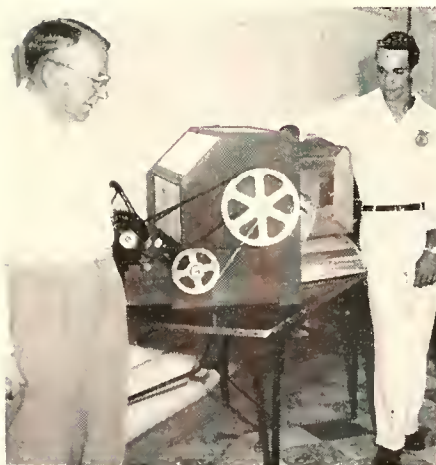
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The Story of Donald Sanford, jr.

By Bill Prince

Don has a knack for doing a lot of things. His work with electricity saved farm labor and won him a national award.



DONALD SANFORD JR., of Route 4, Jasper, Alabama, a 1954 graduate of Walker County High School, was named winner of the Future Farmers of America national award for achievement in farm electrification."

Left, green pea and lima bean sheller Don made is shown at state convention.

At lower left, Don works on Heavy duty stalk cutter he made from scrap metal.

Below, this hand corn sheller is now turned by electricity on Don's farm.



That was the beginning of the news story released from Kansas City the night of October 13, at 8 p. m., during the 27th National FFA Convention. But while that was the beginning of the news story, it was the end of a long road that led to this recognition for Don Sanford.

Certainly all the FFA members who have entered the farm electrification competition, or other contests in the FFA program, from the chapter to the national level, know how much work it takes to win a national award.

Even before entering high school in 1949, Don was very interested in mechanics and was a ham radio fan. When he entered vo-ag work, his interest turned to farm and home electrification, because he found many opportunities to increase the scope of his farming program by putting electricity to work.

Don's early electrical projects included an infra-red pig brooder, lighting the barn, an electric water pump, and a small woodwork and farm mechanics shop, 8 x 10. Today, three years later, it would take several pages to list everything he has done around the farm with electricity. Don puts a conservative cash value of \$1,625 on the electrical equipment he owns, but the actual value of this equipment working on the farm would be hard to measure in dollars.



Frequently Don helped teach farm mechanics to other Future Farmers at school. Here he demonstrates cutting and piercing with electric welder in vo-ag shop.

"I can shell a bushel of peas and prepare them for the freezer in 15 minutes, and it used to take me 6 hours to do the same job," Don says of his electric pea and lima bean sheller—which he constructed himself.

Just to mention a few other things, Don has constructed an electric chicken picker, designed and built a heavy-duty stalk cutter from scrap material, built a 30-inch electric lawn mower, made an electric corn grinder and converted a hand corn sheller to electricity. During this past three years, he has wired or rewired the entire farm for more convenient and economical use of electricity.

"There are no installations on our farm that I did not plan and do, except four circuits in the house," says Don.

While you might think that Don is kept pretty busy making electricity work for him—and he is—he still has time for many activities. He was the FFA Chapter reporter, is a junior member of the Walker County Cattlemen Association, Communion Attendant at his Church, and Senior Crew Chief (Explorers) of the Boy Scouts of America.

While in school he was president of the student body, operations chairman of the Appreciation Club, member of

the Beta Club, catcher of the baseball team, halfback on the football team, forward on the basketball team, and ran the 100-yard dash on the track team.

In 1953 he took first in the FFA Community Exhibit at the Northwest Alabama Fair, was on the team from his Chapter which took second place in the District FFA Beef Judging, and second in the State Contest as well. In 1954 he won the Chapter Public Speaking Contest, and, in his spare time, he plays the piano.

To give you an idea of his FFA projects in 1954, they included a show calf, 2 cows, 2 steers for the home freezer, 2 sows and litters, 15 acres of corn, and 5 acres of cotton.

In 1952, Don won first in the Chapter Farm and Home Electrification Contest, and fourth in the State Contest. He won the Chapter Contest again in 1953, and this time took second in State competition. But 1954 was the banner year, for he made a clean sweep of the field, from the Chapter honor early in the year to the night of October 13, 1954, in Kansas City, when he stepped forward before 10,000 fellow FFA members to accept the National Award and the check for \$250 that went with it.



Advisor Grady Hendrix has guided Don on many of his project ventures. He gives pointers on bench saw use above.

While this represents the end of the story that brought top honors to Don Sanford in Kansas, it is by no means the end of Don Sanford's story. He is going to college and plans to take a degree in electrical engineering. Then he plans to work with farm people to put more and more electricity to work on the farm.



Leslie Parker competes
With Star State Farmers
from eleven other states
to become . . .

TOPS IN HIS REGION

By Mervyn F. Willey

LAST SEPTEMBER 18, at the Eastern States Exposition at Springfield, Massachusetts, a young man stepped forward to accept the award of Regional Star State Farmer of the North Atlantic Region. In the crowd gathered to honor this young man were the governors of six of the 12 states that make up that region.

The winner, 18-year-old Leslie A. Parker, of the Danville, Vermont, FFA Chapter, was chosen the outstanding Star State Farmer in the first contest honoring Star State Farmers in the North Atlantic Region. His prize, presented by the United Farmers of New England, Inc., was a registered Holstein heifer calf valued at \$100, and it was personally turned over to Leslie by Vermont's governor Lee E. Emerson.

It is unusual that just eight years ago, someone gave Leslie a Holstein heifer calf which started him on the way toward the honor he received. So the calf he won September 18 is a valuable addition to his herd of more than fifty dairy cattle.

By the time Leslie entered high school, he had a Jersey cow, a Holstein cow and heifer for his FFA project. Two years

A bite of cheese for Leslie Parker from Vermont's Dairy Queen Ann Collins.

later, when he was a junior, he had a total of eleven head of dairy cattle. During his senior year in high school, Leslie assumed almost complete responsibility for the family farm of 300 acres, and the dairy herd of 41 cows—17 of which belonged to him.

When he graduated from school in June, 1954, the farm was turned over to Leslie to operate for his own profit, and, recently, he signed a note for \$7,000 to buy his father's share of the dairy herd, and has purchased 15 more cows.

Very active in the Danville FFA Chapter, Leslie was a member of the dairy cattle judging team that won first in Vermont during his sophomore year. In his junior year he was elected secretary, and was elected president of the chapter during his senior year. It was during his senior year that he applied for and won the title of Star State Farmer of Vermont.

Improved farm practices that Leslie has performed include the following: registering pure bred animals, greasing and maintaining equipment, using farm safety methods, testing soil and making fertilizer recommendations, clipping cows, culling hens, dressing poultry, dehorning cows and calves by various methods, cutting and skidding logs, producing maple syrup, preparing soil, planting, cultivating, harvesting crops, feeding according to production, rotational grazing of cattle, chemical weed control, and other practices.

Leslie greets each new idea and every advancement in agriculture with an open mind. Grass silage is put up with a forage harvester, a farm pond has been built as a conservation and fire protection measure, land clearing and stone removal is practiced, improved crops are used, and artificial breeding and other improved breeding methods are utilized.

"Keeping accurate production records and breeding to high quality sires will help me build up the herd production," says Leslie of his dairy herd.

A member of the local Dairy Herd Improvement Association and the New Hampshire-Vermont Artificial Breeding

Association, Leslie is highly interested in new ideas and methods to improve livestock and agriculture in general.

One luxury Leslie has allowed himself is a Piper Cub plane, which he owned and operated until recently when he sold it to expand his farming operations. Now that he is out of school, he plans to buy more land, when possible, to take care of his expanding dairy herd.

Circumstances may have allowed Leslie a better than average share of opportunities, but he has taken advantage of them. He has worked long hours before and after school, on week-ends, holidays, and vacations to put himself in the position he now occupies. His interest in new methods in agriculture and new ideas, and his scientific approach to problems have helped make him successful in his chosen occupation.



Presenting calf to Leslie is Stanley Maxwell, left, UFNE; right is Vermont's Gov. Lee Emerson and past FFA national officers Walker James and David Boyne.

These are the Star State Farmers of 1954 from the northeastern states. They were presented during the Governors' program at the Eastern States Exposition.



Leslie's hobby was his Piper Cub, but he recently sold it to buy more dairy cows.





The Way of Winners

A show place was needed. So this four-time National Gold Emblem Chapter got it. Business men donated the trophies.

By Wm. Paul Gray

DOES YOUR CHAPTER have a barn for its livestock show? Take a look around. You may have a good place but hadn't noticed. That was the

experience of Future Farmers at Eaton, Colorado.

Let's see what they did to solve their problem. They needed a place to hold

the Sixth Annual Eaton Little International—a show held during December in weather below freezing.

Eaton is a farming community with a population of some 2,000 people. Their new \$88,000 vocational agriculture building was completed in 1949.

And though it wasn't known at the time, a show arena was also built. At least that is what the Eaton Future Farmers made of it.

These fellows changed their agricultural farm shop into a show place. When they had finished, it would seat some 450 people and provide a show ring for over 25 head of steers.

Finding their fitting barn and stalls proved an easy task. The adjoining bus garage was a natural. It has over 2,500 square feet of floor space which was plenty of room for the livestock of the 115 contestants.

Each problem and detail of this event had been planned for months by the Chapter's cooperative committee. Subcommittees for each part of the show found they had to "dovetail" in order to have every phase completed. Some were busy with problems of management and the selection of judges, while others handled the paper work, advertisement, selling, and entertainment. Superintendents of beef, dairy, sheep, and swine cooperated and planned with Show Superintendent Charles Leffler, the Chapter president. Don Crockroft, Chapter advisor, was kept busy with his many duties.

The Chapter's new pickup was used to perform a thousand tasks. Future Farmers hauled panels, straw, and wood shavings. Others moved the equipment from the shop and stored it. Still another group built partitions, stalls and runways. Bleachers were moved into the farm shop and the show ring was constructed.

The classroom was cleared for a reception room. The Green Hands had the Chapter concession stand in one corner. In another corner was the

Eaton Civic Association. This group served several thousand free doughnuts and cups of coffee during the day and evening of the show.

December 4 was a snowy and cold day outside. However, it didn't dampen the spirits of the youths who had looked forward to the Little International. Many of the young showmen made use of the washing and fitting facilities provided by the Eaton Chapter. They were eyeing the 18 trophies donated by citizens, farmers, and businessmen of Eaton.

Exhibitors included FFA members from 11 Chapters in Northern Colo-

rado and Southern Wyoming and 10 other youth clubs. Some were eliminated in the afternoon as finalists were selected for the evening event.

That evening the building was packed and many people were turned away because of insufficient room. Those who did stay had a comfortable place to view the show and see some fine livestock.

When the show ended, happy owners of the champions began getting ready for the National Western Livestock Show in Denver.

And the Eaton Future Farmers started putting the place back in order for their ag classes.



Above, the Dorsey brothers, both past state officers, grooming for the show. At left, these finalists keep one eye on the judge as they guide their hogs around the arena. Show champions at the Eaton Little International place high with both quality and condition.



Gilbert and wife, Darlene, are shown at left. Below, planning farm work with Dad. Together, they operate an 840-acre crop and livestock farm in Nebraska.



Established at 20—is record of this Regional Star Farmer.

PARTNERS IN FARMING

By John Farrar



Four years of vocational agriculture has given Gilbert a good foundation for farming. He is shown here with his vo-ag instructor, Clayton Young.



WINNING THE TITLE of Star American Farmer of the Central Region last year was just another logical step in the farming career of 20-year-old Gilbert V. Mattes, of Allen, Nebraska. Backed with four years of vocational agriculture study at Allen Consolidated High School, active participation in the local FFA chapter, and close cooperation by his parents, Mr. and Mrs. Jay L. Mattes, Gilbert has achieved his life-long ambition—successful establishment in farming.

Sharing his interest and love of farming now is his new partner and wife, Darlene. The last year has been a busy one for Gilbert and Darlene, working together to set up housekeeping. They live in a neat, modern home that Gilbert and his dad built last summer near the family dwelling.

Gilbert is operator and joint partner with Mr. Mattes in the 840-acre crop and livestock unit they call Springvale Stock Farm.

During his freshman year in vocational agriculture Gilbert started with a sow and litter project and two dairy heifers. His earnings of \$217.63 that first year enabled him to invest in three sows the following year, along with two calves for fattening.

Near the close of his sophomore year he rented a nearby 80 acres and put into practice what he was learning about soil conservation and crop production. He took over the hilly, sandy fields, typical of that section of Nebraska, started terracing and contouring, and seeded 10 acres of the worst part to sand love-grass. Corn was planted on 52 acres and oats on 18.

His earnings from livestock, corn, and oats totalled \$1,629.89 that year. Gilbert kept expanding. When he graduated from high school he had a farming program that included 42 sows and litters, 8 head of breeding cattle, 24 fattening steers, 90 acres of corn, 40 acres of oats, and 30 acres of grass and legumes.

Central Region

Star Farmer

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with "Know-How"

It was then that Mr. Mattes offered Gilbert a one-fourth share of the family farm as his inheritance. He financed another fourth through a 20-year bank loan, and thus became a 50 per cent partner.

One of Gilbert's contributions to the home farm has been the development of a fine herd of registered polled Hereford cattle, replacing the old grade herd. Long-range plans for the farm are based on further expansion of the registered herd, raising enough corn to feed out about 100 head of steers and some hogs each year, and raising enough grass and legumes to keep the beef breeding herd.

A hard worker at whatever job he may be doing, Gilbert also has established himself as an outstanding young leader in his community. He served as vice president and president of the Allen FFA Chapter, was a member of the state FFA dairy judging team, sports editor of the school paper, and vice president of the Student Council. Now

A pilot since 17, Gilbert climbs into his plane for a flight over the farm.



that he's out of school, he is active in Farm Bureau and Superintendent of his Sunday School.

In his spare time he likes to hunt, fish, and fly. Gilbert took flying lessons and earned a pilot's license when he was 17. Part of his farm earnings went into the purchase of a Piper Cub plane.

The old grade herd is being replaced with Polled Herefords like this one.



Gilbert is shown leveling yard in front of new home as Darlene watches from the steps. They live in this modern house built by Gilbert and his father.



Gilbert plans to grow enough corn each year to feed about 100 steers and some hogs. Above, he examines a choice ear.

Future Farmers register in the state capitol building to start the annual leadership training school in Helena.



School in the Capitol

THE CAPITOL BUILDING becomes a schoolhouse, the lawmakers' chambers become classrooms, and the state and federal office holders become teachers.

That is what happens at the annual Future Farmer Training School in Helena, Montana, for present and prospective chapter officers. The theme of the school is improved leaders, citizens and farmers for Montana.

The training school was visioned by State Advisor A. W. Johnson when his offices were transferred to the state capitol. He reasoned that lessons in practical democracy should supplement the leadership training the FFA member gets in his local chapter. All around the vocational agriculture offices were elected representatives of the people. So, Johnson decided that here was an opportunity which must not be missed.

In November 1951, the first annual Future Farmer Training School was conducted for a two-day period. Two days crammed with lectures and classes taught by public office holders. Small group sessions were formed, presided over by a state FFA officer. Later, each Future Farmer had an opportunity to conduct a meeting where local chapter problems and questions were discussed.

The fourth leadership training school was held November 19-20, and was highlighted with a banquet at a local hotel the first evening. State officers spent some time with Mr. Johnson on



State officers have a big hand in planning the program. They are shown above just before the opening ceremonies.

Thursday evening going over the program outline and making suggestions for improving the several meeting.

Delegates were encouraged to hold local training schools back in their home chapters after they return. It was also stressed that reports back to the chapters should include the serious parts of the meeting as well as the humorous.

Attendance at the last training school was greater than ever. More instructors are coming as they see this training paying off in improved leadership in their local chapters. All the present state FFA officers attended at least one of the leadership schools prior to his election to office.

The faculty of public officials have given unsparingly of their time to help guide the minds of these Future Farmers towards more efficient leadership.

Teachers at the school from the elective offices have included two different Governors, Attorney General, Secretary of State, Lieutenant Governor, State Treasurer, Superintendent of Public Instruction and State Auditor. Directors of other bodies such as the Fish and Game Commission, Head of the Highway Department, and Historical Library have taught the boys. So have federal appointees like the agricultural statistician, forester, climatologist and veterinarian.

What do the state officials think about it? Miss Mary M. Condon, State Superintendent of Public Instruction, said, "I get a real lift from seeing you Future Farmers meet here each year in this training school for your improvement and the improvement of the FFA back home. We hope you will continue to make Helena and the State Capitol your meeting place."

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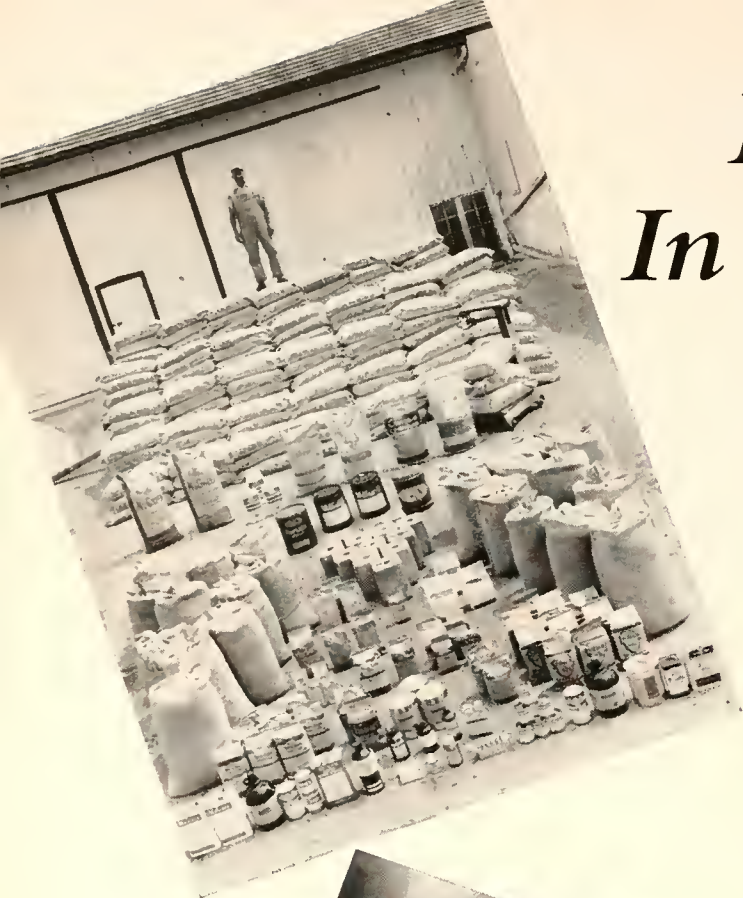


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MOLECULES

In the Tool Shed



IS THERE A LIMIT to what a man can do? Old-timers may have thought so, when the power for farm work came from the muscles of men and horses. Then came all kinds of power equipment. And now, chemicals are lightening the load even more. One chemical worker making weed killers turns out enough material to equal the efforts of 800 farm workers chopping weeds with hoes.

Most of us know how fertilizer can increase the output of the land, and what properly balanced feeds can do for livestock and chickens. However, we're just beginning to realize what can be accomplished with the host of farm chemicals now being used.

Before World War II we thought of agricultural chemicals as rather specialized materials.

Some of the simpler pest-control chemicals have been used extensively for 40 or 50 years by fruit and vegetable growers. But except for seed treatment (see *National FUTURE FARMER* Spring 1953 issue) farmers raising grain and feed had little chemical help. There was even less for livestock and poultry.

Then came the amazing "chemical revolution" after World War II. People often ask what set it off. Why have new chemicals come tumbling out of the laboratories so fast we can hardly keep track of their names. Perhaps part of the answer comes from recognizing what insects, diseases, and weeds cost the farmer. It has been estimated that upwards of \$800 could be added to the income of every farm family in the United States if only 25 per cent of the loss they cause could be eliminated. Then, of course, there's the knowledge that we'll have many more mouths to feed, and fewer farmers to feed them—as years go by.

It proved a very important discovery when it was found that certain organic chemicals turn out to be "biologically active." That is, they affect the life process of plants, animals, insects, fungi, bacteria, etc. For example, the



By Clark W. Davis,
E. I. du Pont de Nemours

Science plays an increasingly important role in agriculture as shown above by the mass of chemicals this farmer uses on 78 acres. Making it possible are scientists like the one below with his "pipe organ."



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Check these important features of the RIGID-FRAME 28 Quonset building.

Louver—A 37" x 14" steel louver is supplied as standard equipment in endwalls with 14' x 13'-6" door, and in solid endwalls.

Sliding Doors—Two sizes of sliding steel doors are available—the 14' x 13'-6" sliding door for use in endwalls, and the 20' x 12' sliding door for sidewalls.

Walk Door—A 3'-6" x 7' swing steel walk door is available for use in either endwalls or sidewalls.

Windows—Four-light windows are available for both endwall and sidewall installations.

Post-Free Interior—Sliding sidewall and endwall doors offer maximum maneuverability of farm equipment.

Skylighting—Corrugated translucent plastic roof panel. Several colors are available.

Roof Ventilation—20" galvanized steel roof ventilators with dampers are available as an accessory.

Paint—Quan-Kote paint, specially formulated for use with galvanized steel, is available in any of five harmonizing colors.

Insulation—The RF-28 can be insulated economically with either board, blanket or bat type material.

Unique Nailable Framing Members—Nails driven through collateral material into the nailing groove are deformed and clinched in a grip of steel—much stronger than the holding power of conventional materials.

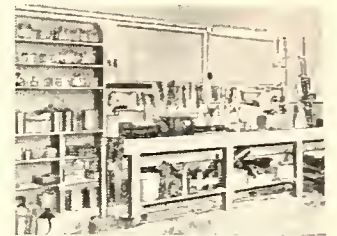
Erection—Pre-cut to exact lengths punched for assembly with self-threading screws means minimum erection time. Either complete erection service or erection supervision is available through your Quonset dealer.

"Seal of Quality"—26-gauge steel sheets, galvanized with 2-oz. zinc coating for longer life and greater corrosion resistance.

Floor—Building is designed with piers for dirt floor, but plans are provided for partial or complete concrete floor if desired. The RF-28, and all buildings in the Quonset line for farm use, are easily financed on the Quonset Purchase Plan. See your Quonset Dealer.



Post-free interior and large, easy-to-slide doors in end and sides make the Rigid-Frame 28 ideal for efficient farm machinery storage. The enclosed end can be insulated to provide a complete farm shop.



A completely insulated handy farm shop such as this makes machinery maintenance and repair a comfortable job any time of the year. A 20-foot door in the shop sidewall admits even the widest machinery.



An economical hay storage and self-feeding barn which serves as additional shelter as cows eat their way in. This adaptation of the Rigid-Frame 28 also provides extra machinery storage or utility space.



Used as a loose-housing barn, the Rigid-Frame 28 is roomy, and its post-free interior makes it easy to clean with power equipment. One end can be enclosed and insulated as a milking parlor and milk house.

Stran-Steel Division

GREAT LAKES STEEL CORPORATION

Ecorse, Detroit 29, Mich. • A Unit of



NATIONAL STEEL CORPORATION



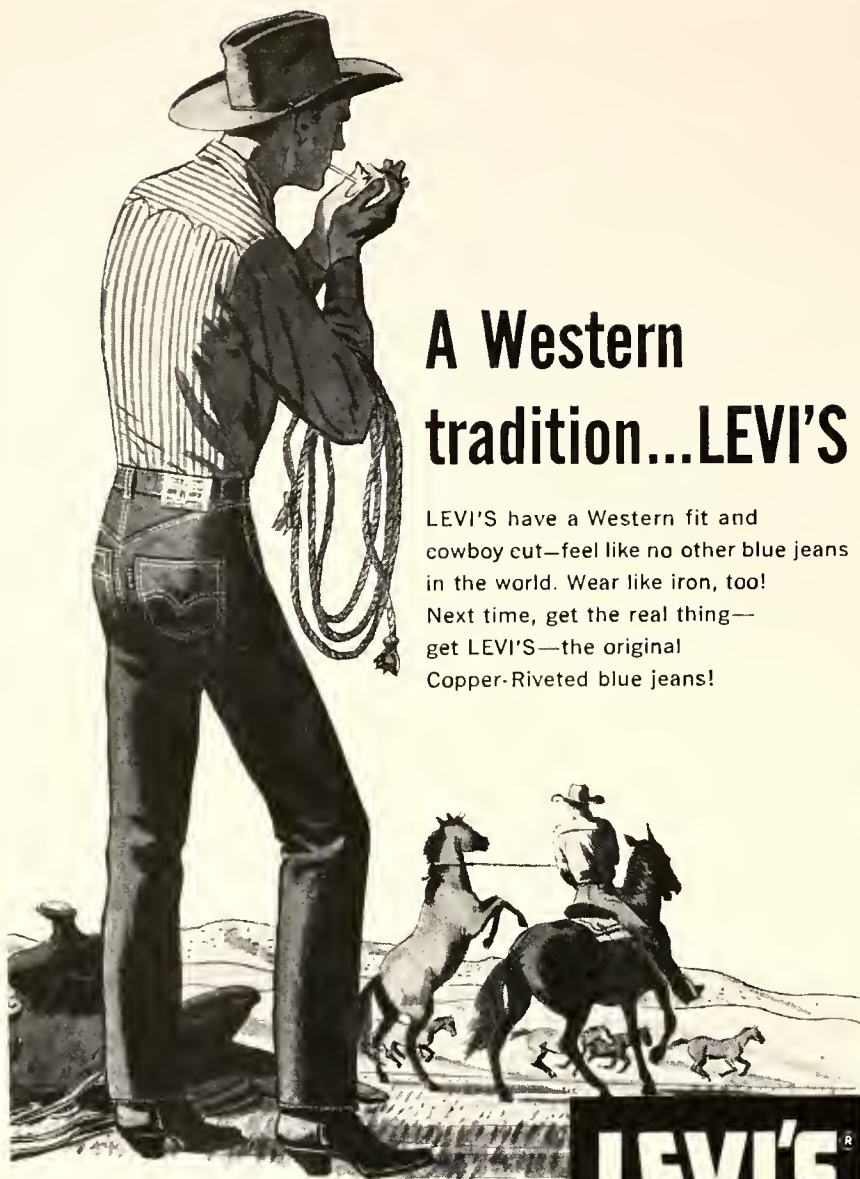
GREAT LAKES STEEL CORP.,
Stran-Steel Div., Detroit 29, Mich.

Please send me the latest literature on Quonsets for farm service buildings and the name and address of my nearest Quonset dealer.

Name _____

Address _____

City and County _____ State _____ 48



A Western tradition...LEVI'S

LEVI'S have a Western fit and cowboy cut—feel like no other blue jeans in the world. Wear like iron, too! Next time, get the real thing—get LEVI'S—the original Copper-Riveted blue jeans!

Hard-riding cowboys in LEVI'S tamed the wild cayuse of the early West!

LOOK FOR THE RED TAB ON THE BACK POCKET . . .



® THE NAME LEVI'S IS REGISTERED IN THE U. S. PAT. OFF. AND DENOTES OVERALLS AND OTHER CARMENTS MADE ONLY BY LEVI STRAUSS & CO.

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CAMPS
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**LET US PAY THE MEDICAL BILLS
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BROTHERHOOD MUTUAL LIFE INSURANCE COMPANY
230 E. BERRY STREET FORT WAYNE 2, INDIANA

application of a hormone, such as 2, 4-D, in small quantities stimulates plant growth. But in the weed killer field it is offered to the weeds in large enough dosages so that plant growth is upset and the weeds die. Antibiotics such as streptomycin, terramycin, and aureomycin seem to have no harmful effect on the growth of warm-blooded animals, but are, of course, deadly to many bacteria.

While the chemist is making new organic compounds, it takes a vast team of biologists to find out where they might apply in agriculture.

So far we cannot predict what effect most of the organic compounds will have. They must be tried. Our industrial laboratories and the state and federal agencies have elaborate facilities for testing new chemicals. After the laboratory finishes the preliminary work, the new products must be tested in the field before they are ready for the farmer to use.

A lot of progress has been made. Something like 50 basic chemicals for



This scientist is studying a chemical in his laboratory which permits corn to grow but is death to noxious weeds.

agriculture have been introduced since the war. But for each compound that reaches commercial use, many are rejected. In our company, about one chemical out of each 1,500 compounds developed in the laboratory finally succeeds in being of use to the farmer.

DDT was the first, and perhaps the most dramatic, of modern developments. There are more than 80,000 different insect species in this country. Between 5,000 and 6,000 of these cause economic loss in one way or another to the farmer. About 200 of these can be considered major pests.

Flies—the hornfly in particular—have been responsible for a 10 per cent reduction in milk production when uncontrolled. They may cause a loss of up to 50 pounds of beef per animal per season.

However, hornflies spend most of their time on the animal and can be effectively controlled if the animals are well sprayed. Beef and dairy cattle



A Brand new way to big corn yields... the **NEW OLIVER BANDWAY PLANTER**

Here's an amazing new planter that drills in the corn crop plus enough fertilizer for the entire season, all in one operation.

The Oliver Iron-Age Bandway Planter has two separate fertilizing mechanisms . . . one for shallow placement to boost early growth... the other sows deep to supply summer-long plant needs and to encourage deep rooting. Fertilizer is placed where it feeds only plant roots, not

the weeds between the rows.

The results of Oliver Iron-Age bandway planting? Plants mature earlier, anchor better and are better able to withstand drought. Side dressing is not necessary, and—most important—reports indicate yields can be doubled. In addition, Oliver Bandway planting cuts costs by eliminating the extra operation of plowing fertilizer under.

It's one more example of how

Oliver product engineering keeps pace with the changing needs of the American farmer.

The Oliver Corporation, 400 West Madison St., Chicago 6, Illinois.



OLIVER

"FINEST IN FARM MACHINERY"



New Holland's 130-bu. Spreader shreds the densest chunks of matted material

Here's why New Holland Spreaders don't show their age

THIS big P.T.O. Spreader, with its many *exclusive* advanced features, is not only built to dish it out—but it can take it too!

You can wash down a New Holland Spreader—after weeks of work—and the finish will come up practically like new. Special steps taken during the manufacture make this possible.

For example: after all shearing, forming, piercing, notching and welding operations, metal parts are cleaned and degreased in both water and acid rinses. Remaining residue is wiped from parts by hand.

Next, a Metalife primer is sprayed to a thickness of $\frac{1}{4}$ to $\frac{1}{2}$ mil. It is a preservative that protects against the corrosive action of bacteria, acids and weather.

This is followed by a coat of New Holland red paint sprayed to a thickness of 1 to $1\frac{1}{4}$ mil. To maintain proper spray painting conditions, temperature and viscosity of paint is checked twice daily and, naturally, each time paint is mixed.

Special treatment is also given the dense Georgia pine flooring before painting. For one hour before assembly, floor boards are completely immersed in a Pentacote preservative solution—tested by the U. S. Department of Agriculture for water-repellent and non-rotting qualities. In this way even the ship-lapped joints are protected.

Add to all this the continual quality checks of materials used and you have a spreader that will wear its age well after years of service. The New Holland Machine Co., New Holland, Pa. A subsidiary of The Sperry Corporation.

NH® NEW HOLLAND

"First in Grassland Farming"



Metal side sheets ready to be immersed in wash tank solution of 7 oz. of Fosbond 22 per gal. of water.



After 15 minutes in 180° solution, side sheets will receive hot water and acid rinses before painting.



Yellow pine floor boards draining after being submerged for one hour in fungicidal sealer bath.

have been protected against hornflies and stable flies with methoxychlor sprayed on the animals or when applied with "back-rubbers."

Methoxychlor is still one of the best residual wall sprays. Some makers are now fortifying it with other materials for quicker action.

While we are talking about live-stock, let's take an example of another chemical. If steers could talk, they would probably complain of a tired, run-down feeling. In field studies with cattle herds in seven states it has been reported that a light infection of certain internal worms may lower cattle gains by as much as 50 per cent. These light infections often go unnoticed. Actually, they occur so widely that full growth rates are the exception rather than the rule.

A new preventive program has been developed which protects beef cattle from these parasites. This program is based on the livestock medicine called phenothiazine. It is given in small daily doses with the feed.

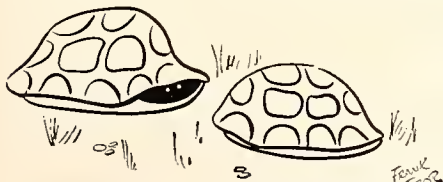


These are miniature beakers, bottles, and crucibles showing some tools used in developing chemicals for the farm.

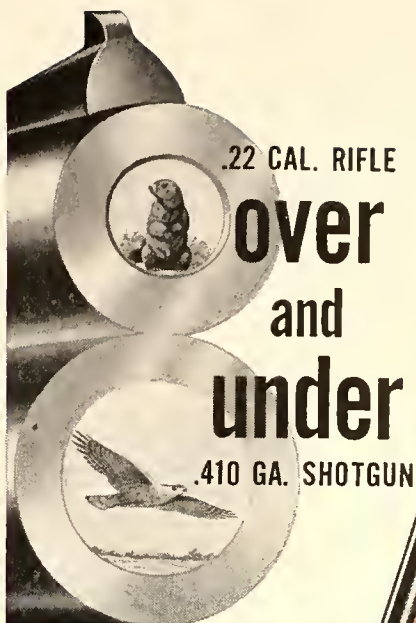
Even with apparently healthy animals under ideal grazing conditions, beef production has increased substantially when phenothiazine was given this way.

Efficient use of feed is also an important topic with the nation's booming broiler industry. In over 200 comparisons, involving thousands of birds, investigators have gotten a consistent improvement in feed efficiency through the use of methionine. It is one of the amino acids—a building block of protein. Only a pound of methionine in a ton of feed has improved broiler gains enough to give seven to 10 per cent more gross profit to the operator. Even greater responses can be expected with turkey poults.

Plants, as well as livestock, show



"I dare you to come outside and say that."



*The famous
all-purpose
gun!*
SAVAGE MODEL 24

\$36⁹⁵

The choice of *either* an accurate .22 cal. rifle or a dependable .410 gauge shotgun is yours—*instantly*—when you're afield with the Savage Model 24 over-and-under.

It's the most versatile gun on the market—ideal for fun, fur or feathers. Use the accurate .22 cal. *upper* barrel for plinking, informal target shooting or small furred game. Then, with a flick of the thumb, the dependable .410 gauge *lower* barrel is ready for flying pests, game or targets.

The Savage Model 24 "over-and-under" is as compact, lightweight, streamlined and good looking as it is practical—the perfect many-purpose gun for use on the farm, at camp, or for all-around utility. See it at your dealer's.



Free Catalog—please state interest:

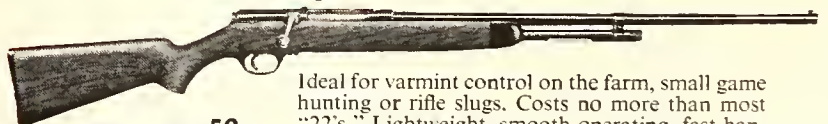
1. Rifles. 2. Shotguns. Write to:

SAVAGE ARMS CORPORATION
Chicopee Falls 12, Massachusetts



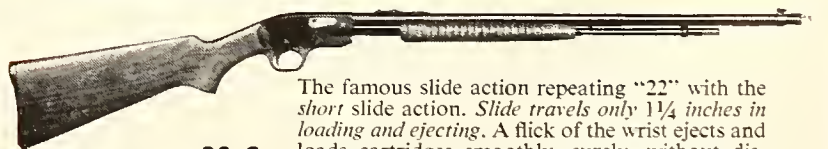
A lightweight, rugged, many-purpose over-and-under gun. Upper barrel shoots all .22 cal. rimfire cartridges; lower barrel, .410 shot shells. Single trigger. Single sighting plane. Selector button permits instant choice of either barrel. Two-way top opening lever. Walnut stock. Take-down.

All prices
subject to change.



STEVENS Model 59
Bolt Action
Repeating Shotgun
6-Shot Tubular Magazine
.410 Gauge—\$29.95

Ideal for varmint control on the farm, small game hunting or rifle slugs. Costs no more than most ".22's." Lightweight, smooth operating, fast handling. Take-down... matted receiver... self-cocking bolt action... thumb operated safety... one-piece walnut stock... full pistol grip... broad fore-end with black tip.



SAVAGE Model 29-G
Slide Action
Repeating Rifle
.22 Caliber
\$44.95

The famous slide action repeating ".22" with the short slide action. Slide travels only 1 1/4 inches in loading and ejecting. A flick of the wrist ejects and loads cartridges smoothly, surely, without disturbing aim or rifle position. Dependable hammerless action... one-piece bolt—removable without tools... single take-down screw... walnut stock... extra long slide handle for firm grip. Receiver grooved for instant 'scope mounting.

If your crops look like this



and you want crops like this...

Give 'em that **EXTRA PUSH** with **ARMOUR** **FERTILIZERS**

Armour fertilizers give your crops the extra push that brings extra profits. Armour gets right to work in your fields, giving crops a healthier, stronger start and feeds them properly right through the growing season.

For yields that will be the pride of your section, feed Armour's . . . Big Crop or Vertagreen for Commercial Crops. See your friendly Armour agent today! Ask him for one of these two great Armour products in the analysis you need.



ARMOUR FERTILIZER WORKS
Atlanta, Georgia

growth responses to chemicals—not only to fertilizers but to many other types of materials.

In 1945, many scientists felt that the ultimate in plant regulant chemicals had been reached with the arrival of 2,4-D. Yet the development of the substituted urea herbicides since then has brought to light a great group of chemicals. They are effective at low rates of application against a remarkably wide range of weeds.

Certain members of this family remain in the soil long enough to check growth where it is desirable to control vegetation for an extended period. Others have been used successfully in experiments against some of the stubborn deep-rooted weeds. Some appear potentially useful for selective control of weeds in crops.

Chemical brush control on natural range and pasture has substantially increased the carrying capacity of the grazing areas.

Now, how about man-made pastures and hayfields? Chemicals already fit here in two ways. Chemicals can be used now to protect the seed when it is planted. Second, in many areas, chemical insecticides applied through the season prevent loss of this year's crop and protect plant vigor for next year's stand.

These are only a few of the practical applications of "molecules in the tool shed." What's ahead depends on what chemists can do with their own tools. And these, too, might surprise you. Most any Future Farmer can imagine the kind of work that goes into developing a new piece of equipment. You can see it and feel it and watch it work—tighten a nut here, pound a rivet there, and weld on another bracket. But the chemist works with invisible atoms and molecules, often using miniature beakers, bottles and crucibles, as well as Geiger counters, electron microscopes and spectrophotometers—with a one-in-1,500 chance of success! However, you can still look for more new chemicals to lighten your farm load and make your future in farming brighter.



**432 Big Cash and Bond Prizes—
Plus 18 Free trips to the International Live Stock
Exposition in Chicago in**

Pfizer **\$20,000.00**
3rd Annual LIVESTOCK JUDGING CONTEST

You judge from actual photos...
on entry blank you get from your
feed dealer.

MARKET HOGS:



LAYING HENS:



DAIRY COWS:



Enter one, two or all three contests
Ask your feed dealer for entry blank now.

**This may be your year to win — and this year
your chances are 3 times greater to win.**

This year it's bigger and better than ever. Pfizer's \$20,000 Livestock Judging Contest has been expanded to include Laying Hens and Dairy Cows as well as Hogs. Actually three separate contests. There's a separate set of prizes for each contest—separate contests and prizes for Junior entrants and for adults.

If you can cull laying hens, tell what makes a good market hog or a high-producing dairy cow, your chances of walking off with a \$2,000 CASH PRIZE are as good as the next man's (or woman's

... Pfizer wants you Farm Wives and Farm Girls to win, too).

All it takes to enter is a tag from any brand of feed containing antibiotic at high levels. It's the feed that fights disease in chicks and poults, helps save scouring pigs and calves. Be sure to save the feed tag and enter Pfizer's \$20,000 Judging Contest.

Remember, you judge from pictures. There's nothing to write. It's easy to win. Ask your feed dealer for your free entry blank today. Enter as often as you please.

**ASK YOUR FEED DEALER
FOR FREE ENTRY BLANK NOW**

Fight Disease . . . Feed for Profit

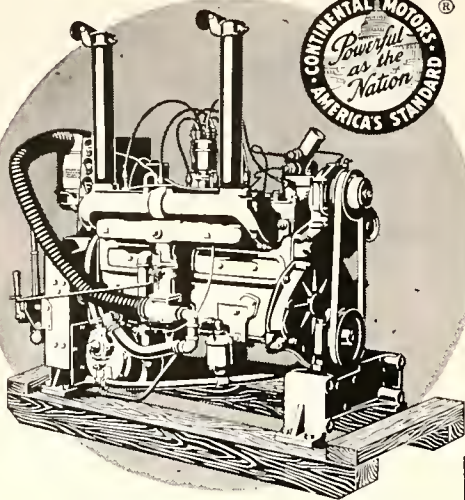
Ask for feeds containing

Terramycin®*

***at high levels**

Pfizer

Chas. Pfizer & Co., Inc., Brooklyn 6, N. Y.
World's largest producer of antibiotics
Terramycin* brand of oxytetracycline



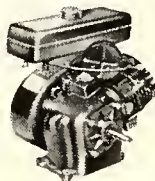
DEPENDABLE MAN-MADE WEATHER

◀ **CONTINENTAL RED SEAL**
Model M-330 LPG Irrigation
Engine—114 H.P. at 2600 R.P.M.

Red Seal engines are getting the call for more and more irrigation jobs, because they have already made good as a source of such specialized power. Every Red Seal irrigation power plant is engineered for irrigation use—designed and built to obtain the maximum output from today's high-speed pumps. The Continental line is unusually broad—10 to 270 horsepower—and includes models at every level for use on all standard fuels. For dependable man-made weather, choose dependable Red Seal power.

A COMPLETE LINE OF 4-CYCLE AIR-COOLED ENGINES

Continental also builds air-cooled models, from 2 to 3 h.p., for heavy-duty applications, both conventional and vertical shaft. They offer the exclusive Context® external ignition system, greatest air-cooled engine advance in recent years. For information, address Air-Cooled Industrial Engine Division, 12800 Kercheval Avenue, Detroit 15, Michigan.



SERVICE FACILITIES AND GENUINE RED SEAL PARTS ARE AVAILABLE EVERYWHERE

Continental Motors Corporation

MUSKEGON, MICHIGAN

Choose Your FFA Ring From These Three Popular Designs In 10K Gold Quality



FR 103



FR 101



FR 100

Write for catalog
and prices today!

L. G. BALFOUR CO.

Attleboro, Massachusetts

Official Jewelers for the Future Farmers of America

Sportrait



IN 1941, GEORGE MIKAN, a tall, rangy 17-year-old boy from Joliet, Illinois, made a visit to the University of Notre Dame. After an interview and a brief workout, George Keogan, the famed Irish coach, told him to go back to his studies; that he was too big and clumsy for basketball. Three years later, he had twice been named All-American.

After being turned down at Notre Dame, Mikan went to DePaul University where he was given a chance by coach Ray Meyer. After many long hard hours of practice, along with the help of his coach, Mikan began to click, and he scored 217 points in his freshman year. During his four years at DePaul, Mikan tallied 1,870 points in 101 games for an average of 18.5 per game.

After leaving DePaul, Mikan went with the Chicago Gears and after one season, he went with the Minneapolis Lakers. In the years that followed, George Mikan, according to the experts, has become the greatest player in the history of basketball. He has been named All-American or All-Pro every year since his sophomore year at DePaul.

As a pro, George Mikan has done more things, broken more records, and lasted longer as a champion than any other player. He has broken every basketball record, except one, some half-a-dozen times. In his peak season with the Lakers, 1950-51, he set two still-existing records by sinking 1,932 points for a game average of 28.4. In eight years as a pro he scored 11,376 points for a lifetime game average of 23.05. No one else has come within 5,000 points of this record.

The big guy retired September 24, 1954, to become executive vice president and general manager of the Minneapolis Lakers. Although his scoring and rebounding will surely be missed, his fabulous career will long remain an inspiration to others.

Cal Poly expands Ag program with modern farm buildings



Cal Poly has made use of modern steel farm buildings to expand its dairy and beef cattle facilities. This expansion program affords ample facilities so that all students can receive complete instruction in new livestock feeding and handling

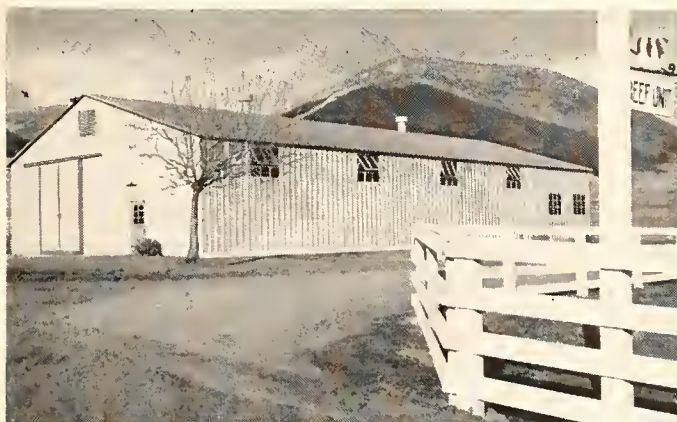
developments. The 10 new buildings erected during the last 18 months are all fire-safe Butler steel buildings, with Spanish red roofs and adobe colored side walls to match the color scheme of other campus buildings.



Combination feed storage, feeding and loafing area are combined in one 40 x 100 foot Butler steel building. Breeding stock stays healthier, chore time is reduced with this modern farm building.



Fire-safe, permanent Butler buildings are also used for classrooms and laboratories. Farm machinery used on the campus farm is housed in the two buildings at the rear in the photo above.



Modern methods are taught in this steel farm building at Cal Poly's beef project. Notice convenient arrangement of doors and windows.



Interior of beef unit building shows how students have unobstructed view of ring. Butler farm buildings are post-free to provide fully usable space.

Modern farm buildings are made of steel. They're clear-span, weather-tight, fire-safe. See your Butler Builder for your free copy of illustrated booklet, "New Uses for Butler Steel Farm Buildings."



Oil Equipment • Steel Buildings • Farm Equipment
Dry Cleaners Equipment • Special Products

Factories at Kansas City, Mo. • Galesburg, Ill. • Minneapolis, Minn.
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Please send me free information about Butler buildings and the name of my nearest Butler dealer.

Name

P. O.

R.F.D. State



Simple new practice produces

BETTER GROWTH

AND

HEALTHIER CATTLE

on less feed

CATTLE RAISERS have found an unsuspected source of new profit right in their own animals. Research has pointed out that worm control—in animals that don't look wormy—can be a paying proposition in practically every herd in the country.

Most cattle have worms, even in northern states where severe winters were once thought to control worms. But most infections are light, and there are no symptoms like anemia, diarrhea or "bottle jaw" to show the damage. Just the same, there's a steady drag on growth, vigor and profit* unless they get effective treatment.

Fortunately, treatment is easy. The drug Phenothiazine, known for years to control more worm parasites than any other drug, is recommended in a two-way program. First, remove adult worms with doses of Phenothiazine in feed or as a drench; then prevent reinfection with continuous low-level feed-

ing of Phenothiazine in supplement, mineral mix or salt.

This new program fits right in with regular feeding practice. Talk it over with your advisor. Tell him Du Pont has an 18-minute movie on this subject and a booklet, "Worm Control Increases Live-stock Profits," which are available on his request. E. I. du Pont de Nemours & Co. (Inc.), Grasselli Chemicals Department, Wilmington 98, Delaware.

* Two-year tests were conducted with 600 weaner calves, all of which appeared healthy. Those treated with Phenothiazine under the two-way program produced better gains than the untreated group . . . on only $\frac{3}{4}$ as much supplement.



BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

NEW..... ***on the market***

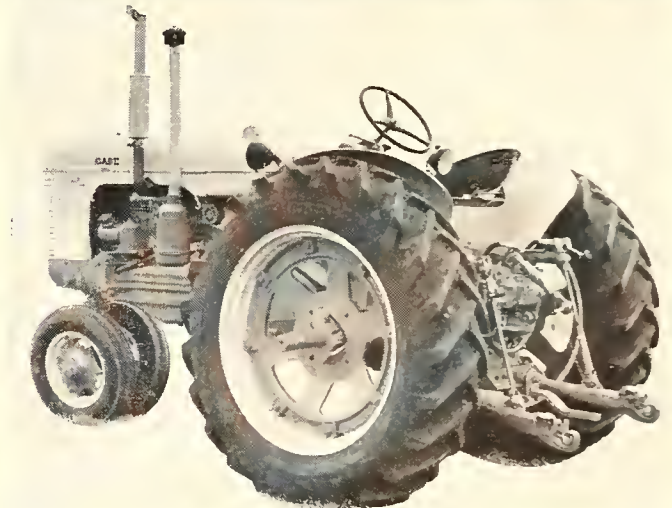
Here's a glimpse of a few of the many new machines on the market this year. The many improvements the new models have over old ones certainly bear out the fact that the machinery people are at least keeping up with the giant strides of progress now being made in agriculture.

National FFA officers went behind factory walls during their recent Good Will Tour to see where many "New on the Market" products are made. They are shown during visit to Pontiac, making new friends for agriculture.



High speed planting up to five miles per hour is possible with the new PQ 400 4-row planter by Minneapolis-Moline, Minneapolis, Minn. It will seed about 8 1/2 acres per hour.

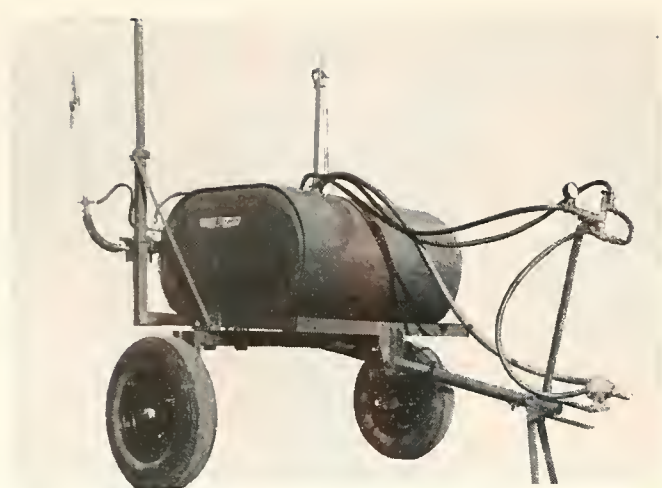
The new Ferguson 35 tractor, below, features quadramatic control, dual-range 6-speed transmission, variable-drive PTO and 2-stage clutch. Ferguson Div., Racine, Wisconsin.



New in the 50 h.p. tractor class is the Case "400," above. Available with gasoline, diesel, LPG or distillate engine. Eight forward speeds. J. I. Case Co., Racine, Wisconsin.

This grassland drill by John Deere, Moline, Ill., will seed small grains, grasses and legumes in permanent pastures and deep-place fertilizer, all without destroying the old sod.



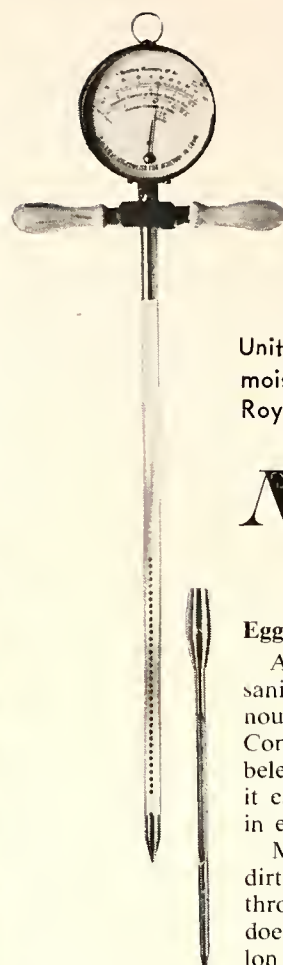
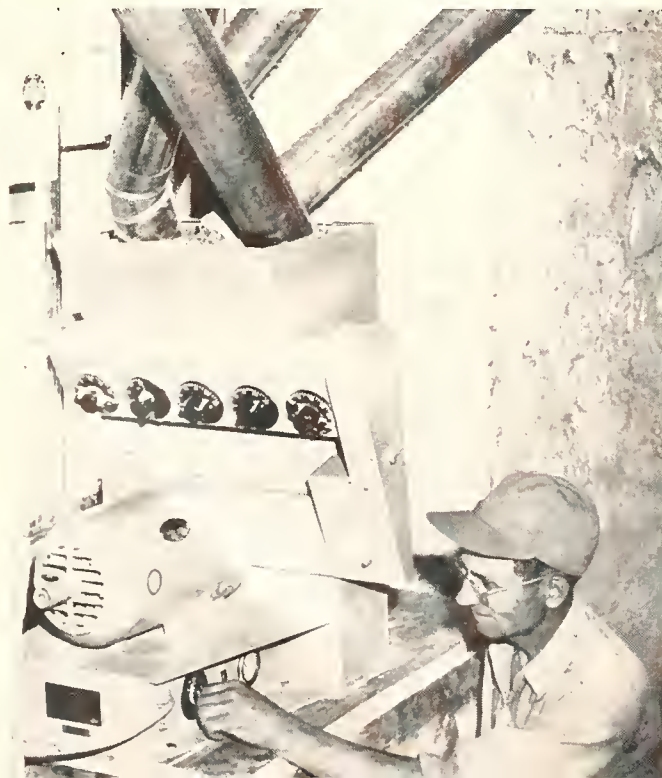


Above, 200-gallon trailer-type sprayer is announced by Field Force Mfg. Co. Inc., Phoenixville, Pa. Delivers 13 gallons per minute. With 20 ft. boom, less tires, \$375 FOB factory.

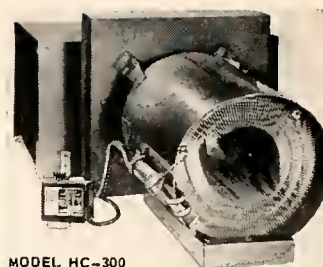


This tank sprayer developed by Nutritional Concentrates, Inc., New Lexington, Ohio, is capable of handling liquids and non-solubles in suspension. 500 and 1000 gallon tanks.

Mix-Mill, below, combines up to four ingredients. Dials control feed mixture wanted. Mixes 1200 lbs. per hour. \$398.50 FOB factory. Belle City Eng. Co., Racine, Wis.



Above is "Quicktest" for moisture content of grain. Thermometer tests heating. 40-inch model \$98 FOB New York. Gibson and Chase, Inc., N. Y.



MODEL HC-300
1/3 H.P.

Unit for conditioning egg holding room's moisture and temperature is offered by Royal Mfg. Co., Bowling Green, Ohio.

New..... on the market

Egg Washing Solution

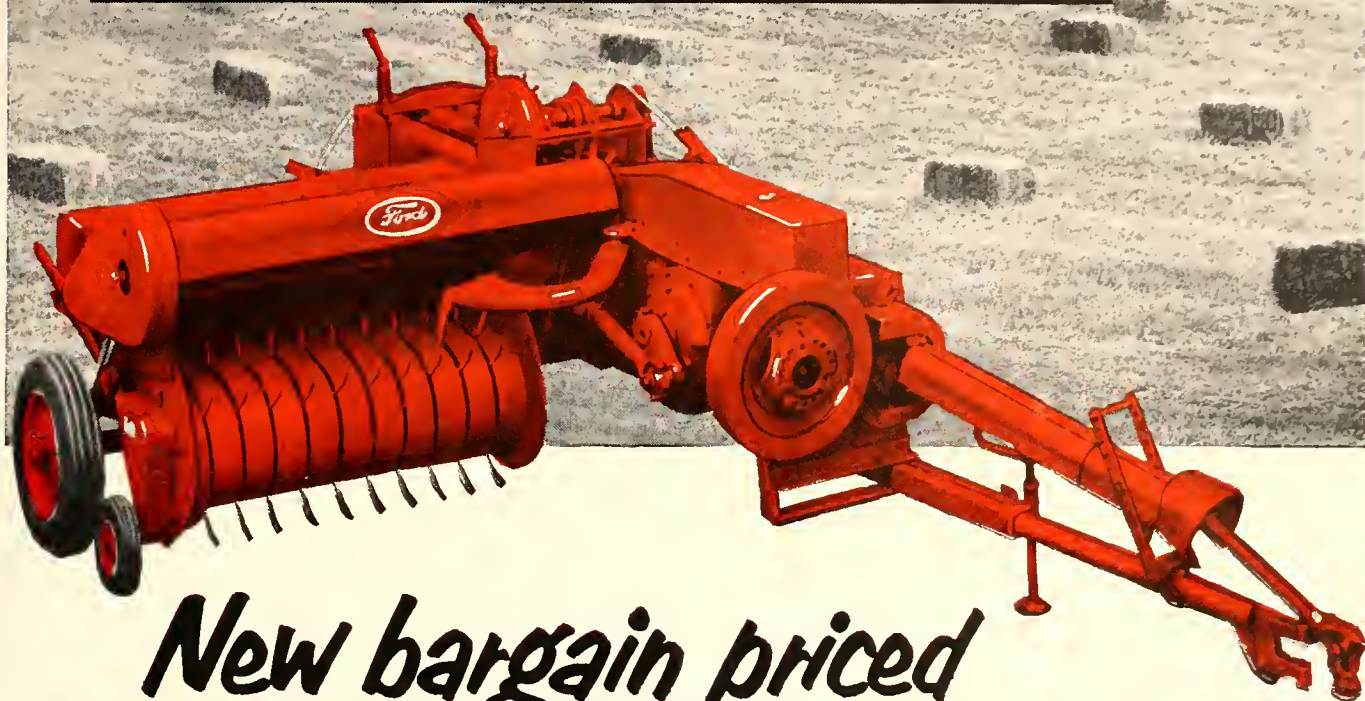
A new non-toxic egg washing and sanitizing compound has been announced by the Wilford Chemical Company, Buffalo 4, New York. Labeled "Wilford Egg Washing Solution," it can be used by the hand method or in egg washing machines.

Makers say it softens and removes dirt, destroys bacteria that might enter through shell and cause spoilage, but does not affect hatchability. Half-gallon size from company, \$4.50.

The new Dearborn Rotary Cutter, below, has been added by Ford Motor Co., Birmingham, Mich. Uses include chopping stalks, clip pastures, weeds, cut small brush and trees.



**FORD MEANS MORE
IN HAY BALERS, TOO!**



New bargain priced **FORD 250 P.T.O. BALER**

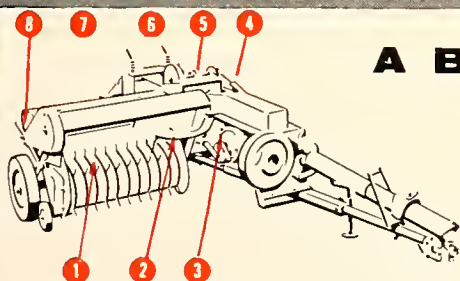
More in Performance. Into the new Ford 250 PTO Hay Baler has been incorporated a long list of performance features that bring a new, high level of baling efficiency into the low cost baler field.

Yet, for all its performance and efficiency, the new Ford 250 Hay Baler is a simplified, compact machine. The number of moving parts has been reduced over other balers, and needless weight has been eliminated. Similarly, the baling and tying mechanisms are designed to deliver full weight, well formed bales under a wide range of baling conditions. You'll see the difference!

More in Money-Saving Value. Although the new Ford 250 Baler is loaded with advanced performance features, its price is exceptionally low. It is the baler, you will find, that is practical to own because it pays for itself on fewer acres.

ENGINE DRIVEN MODEL ALSO AVAILABLE

So stop in at your Ford Tractor and Implement Dealer's and find out why Ford offers you *more real value* . . . not only in tractors, but in balers, too! TRACTOR AND IMPLEMENT DIVISION, FORD MOTOR COMPANY, BIRMINGHAM, MICHIGAN.



A BALER-FULL OF ADVANTAGES

- 1 Lifts hay only 24 inches—saves leaves
- 2 Sure-action sweep fork reduces slugging
- 3 Non-stap plunger—faster baling
- 4 Needles thread from the front—less twine wear

- 5 Twine fingers improve tying, reduce twine breakage
- 6 Baling capacity—up to 7 tons per hour
- 7 Compact—power saving—light pulling
- 8 Narrow width—goes through gates easily

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Boosts Foundation Work

DONORS to the Future Farmers of America Foundation have elected A. F. Davis, secretary of the James F. Lincoln Arc Welding Foundation at Cleveland, Ohio, to serve as 1955-56 chairman of the Foundation Sponsoring Committee.



In this position, Mr. Davis will handle most of the work of soliciting contributions to the Foundation during the coming year. He succeeds W. A. Roberts, president of the Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin.

Mr. Davis' interest in the FFA began several years ago when he was asked to represent his company at the national FFA convention. Seeing the officers and delegates in action at Kansas City so enthused him with the organization that he immediately made a personal contribution to the Foundation. He hasn't missed a convention since that time.

His election to chairmanship of the Sponsoring Committee came in late January when 71 persons representing donors met with the Foundation Board of Trustees to hear a report of last year's operations and the presentation of the budget for 1955.

Earlier, the Board had approved a budget of \$171,615 for expenditure by the Foundation during this year.

A breakdown of the budget shows \$149,800 for awards to Future Farmers of America members, \$14,815 for awards to New Farmers of America, and \$7,000 for administrative expenses.

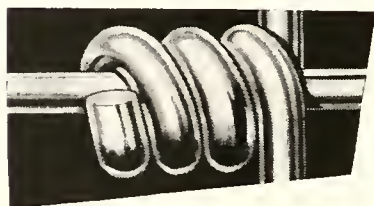
Changes in the program over that followed in 1954 included increasing awards for American Farmer degree winners from \$50 to \$75 each, budgeting \$5,000 to provide plaques and certificates for the revised National Chapter contest, and setting up a fund of \$3,000 to print a brochure to explain Foundation awards to FFA members.

Stays Tight Stands Straight Lasts Longer

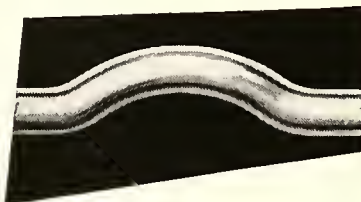
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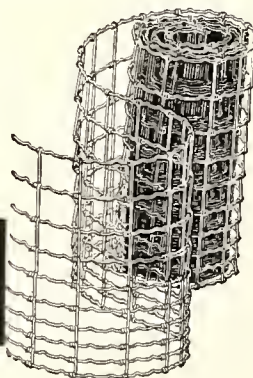
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HOW TO RAISE A BOY

There's a television program coming you may want to see. It's the "Cavalcade of America" production entitled "How to Raise a Boy." Both vocational agriculture and FFA are included.

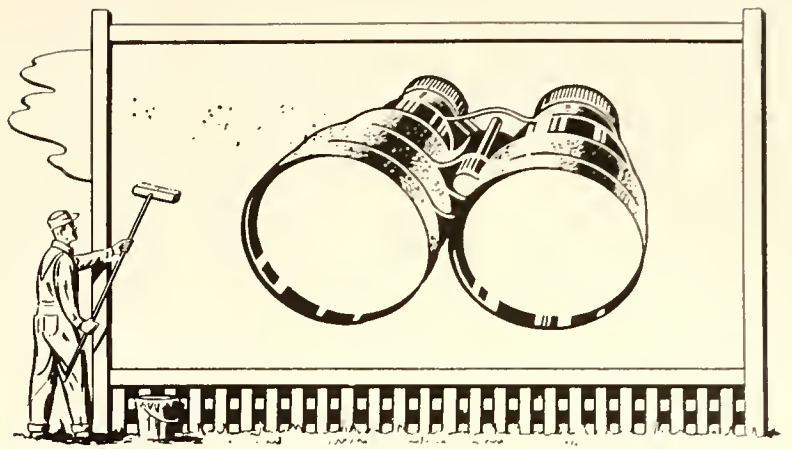
The program features veteran stage and screen star Paul Kelly as John Abbott. It tells how the Abbotts, a childless couple, change a sullen boy into a friendly, well-adjusted "son."

The show will be presented by DuPont Company, on April 26 over the ABC-TV network and selected spot stations.

Although fiction, the story is based on fact. The setting is as authentic as careful research can make it.

Emily and John Abbott had already adopted Don and Steve when they took Andy into their modern farm home. But, Andy was different. He repelled their friendly advances and ignored his vocational agriculture teacher's invitation to take part in FFA activities.

At the end, however, Andy finds all the evidence he needs to convince himself that he is loved and wanted.



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It's time to lay aside winter clothes and turn to lighter things. Your Future Farmers Supply Service has everything you need in official shirts—sport shirts, "T" shirts and dress shirts. Many of them can be lettered with your name or nickname. Every one carries the official FFA emblem!



How about your baseball cap? Yes, sir, your Supply Service is right on the ball with your exact size ready for immediate shipment.



Check with your advisor right away—he has a copy of the latest catalog showing all these things and many more! (If he doesn't, write for one today. It's free!) And remember this: The only place you can get official FFA merchandise is at your Future Farmers Supply Service. Why? Because this business is owned (lock, stock and barrel) by the Future Farmers of America!



You may not have noticed the Supply Service also has items for the girl (or girls) in your life! Have you seen the pearl heart bracelet, the sweetheart compact or the pearl pendant?



Future Farmers Supply Service
Box 1180, Alexandria, Va.





two boys,

a canoe, and . . .

NERO

By George Dillon

THE SNAKE is no sissy river. It comes brawling down out of the Yellowstone Park Country, rough and eager. It roars past jagged granite peaks, ripples across sagebrush—covers flats, and swirls, dark and dangerous, through lava-rock canyons, hurrying to join the Columbia. At our town, Idaho Falls, it thunders over a 20-foot cataract.

Marlin Stevens and I decided to build a canoe, take it up to the Wyoming state line, and run the river, fishing and camping on the way.

There were several things about Marlin—besides his being a swell pal—that fascinated me. One was his dog, Nero, a flop-eared, brown and white pooch, whose intense eagerness and affection only emphasized his huge, bumbling awkwardness. No angry bull in a china shop could create, with malice aforethought, the havoc that Nero could, just in fun. He was part Irish Setter, part St. Bernard, part—the truth is, his ancestors had been just plain careless—but we loved him.

Another fascinating thing about Marlin was his sister, Janet. She had chestnut brown hair, laughing eyes, and a warm, friendly smile, and it seemed I could never see enough of her.

Marlin and I built the canoe, and when it was finished we were mighty proud of our craftsmanship—but Mom looked at it dubiously. “You’re not taking that thing on the river,” she said firmly. “It’s dangerous; it’ll tip over too easy.”

We argued and argued but it did no good. Mom had made up our minds. We finally agreed to launch it on the irrigation canal—and it’s lucky we did! That canoe that we’d loved and toiled over so long dumped us upside down in the water before we’d gone a dozen yards from shore. It was harder to stay right side up on than a greased pig.

The trouble was that we’d concentrated too much on slender grace and

speed, and not enough on stability. It really was, as Mom said, too dangerous for a river like the Snake.

We decided, after much debate, to graft blisters along each side, making the bottom broader and flatter. We did a pretty neat job and, although they made the canoe slower and heavier, they did give it more stability, and made it unsinkable, even if capsized.

When we had proved this to Mom’s satisfaction, she brought out two homemade “Mae Wests” and a large smile. And not until we promised to wear those life jackets while in the canoe would she give her blessings to the proposed trip.

The next morning we loaded our canoe, food, and gear into Mr. Steven’s old station wagon and climbed in along with Nero, who was going along just for the ride, and Janet, who was going to drive the station wagon home.

It was a bright August morning and the three of us sang songs and ribbed each other happily as we drove up the river. Nero squirmed with excitement, occasionally added his mournful fortissimo to our singing, and lunged clumsily from one of us to another, pawing affectionately and trying to “kiss” us with a tongue as large and wet as a mop.

Near the Wyoming line where the river boils out of the Grand Canyon of the Snake, we had a picnic lunch and prepared to shove off. We carried the canoe down to the river and set it on the water, then carefully stowed all our gear in the bottom, placing it to get the maximum of balance and seaworthiness.

Marlin gingerly stepped into the canoe and I followed him after saying good-by to Janet. Nero, who had been lumbering around like mad, loudly sniffing everything that caught his interest, suddenly became aware that he was being left behind. He let out a mournful yelp, raced down to the canoe, and tried to scramble aboard.

“No you don’t, stupid,” said Marlin, shoving him away. “A canoe is no place for a clumsy ox like you. You’d wreck a battleship. Hold him, Janet.”

Janet grabbed Nero by the collar and led him protesting up the bank. We waved and shoved the canoe out into the stream. Nero refused to be left. He made a mighty lunge, jerking loose from Janet, and leaped across the six feet or so of open water into the canoe.

As Nero struck the canoe, Janet screamed; Marlin yelled, “Nero!” and threw his weight to counterbalance the force of the huge dog; and I put everything I had into keeping us from capsizing.

The canoe tipped perilously, shipping several bucketsful of water, then righted itself. Marlin grabbed Nero and threw him down on our dunnage. I tried to straighten the canoe out in the swift, rough water so we wouldn’t be wrecked. Here the current was almost a rapid, so swift we could not hope to paddle against it, and so turbulent a moment’s carelessness could bring disaster. It swept against the steep rocky shoulder of a mountain, offering a shoreline too rugged to get Nero back to Janet even if we’d found a safe place to land. I caught a quick glimpse of Janet standing with hand to mouth, watching fearfully, and I gave her a reassuring wave.

We were already a hundred yards downstream and it was miles and miles to another place where Janet could get a car close to the river. Nero was with us for the trip. Marlin was still holding him motionless, or almost motionless, on our gear. Nero was thumping his tail excitedly and joyfully licking Marlin’s defenseless face.

“Make this hound quit slobbering me,” Marlin gritted.

Knowing better than to let a laugh escape me, I helped Marlin convince Nero that he should lie quietly. Marlin bailed out most of the water and took

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BE SURE TO STOP AT
ROYAL CREST HOTELS

up his paddle, but kept a wary eye on our reckless canine friend. And that's the way we started, with Nero, the stowaway, aboard! No telling how we'd end!

But for the time being, frightened by the motion of the canoe in the turbulent stream, he lay still, while we thrilled to the rush of fast water and relished the sense of adventure each bend of the river brought us. Rugged mountains pushed up against the sky on both sides and we could smell the cedar and sage and pine that clung to their sides.

Late in the afternoon we saw a good campsite and turned the canoe toward shore. At sight of land, Nero came to life and when we were still about eight feet away, he suddenly stood up and leaped for the bank. But Nero was no

boatman. His thrust drove the canoe sideways, upsetting his calculations and spilling him ungracefully into the cold water.

He gave a startled, plaintive "woof!" as he went under. He came up only a yard from shore, but he didn't climb out on dry land like any sensible dog would have done. Not our Nero. He headed back for the canoe. Before we could quit laughing and stop him, he hooked his front paws over the gunwale and tried to climb in.

The canoe tipped, water poured over the side, and we were in the river with Nero. Yeow! But that water was cold! We came up gasping and scrambled wildly to rescue our possessions. It was only about three feet deep here and we floundered around madly, grabbing things and throwing them on shore. In about two minutes we had retrieved everything and climbed out—half angry, half laughing, and all wet.

Marlin and I each had matches in waterproof boxes and soon got a fire blazing. We wrung out our wet clothes and hung them on branches to dry. Our supplies were in supposedly waterproof bags but most of them were wet in spots, and our bread, not carefully packed after lunch, was ruined.

Looking like fugitives from a nudist colony, we started preparing supper. We sliced potatoes for frying, opened

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Bob & Bill

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a can of beans, and mixed a sort of bannock from some of the wet flour. Nero had kept us too busy to fish, so mournfully we decided to dine on plain old bacon.

I was busy cooking when Marlin suddenly exclaimed, "Would you look at that!"

Glancing up, I saw Nero prancing from the shrubbery with a large young rabbit held proudly in his jaws. He brought it to Marlin and laid it in his lap, then nuzzled him hopefully. You could see he was begging for our forgiveness, and when Marlin ruffled his ears fondly and said, "Good old Nero," he wriggled his whole body in pure ecstasy. We couldn't help but like the big lummo.

"What beats me," Marlin said, beginning to dress the rabbit for supper, "is how a dog as clumsy as Nero ever caught a rabbit."

We fried the rabbit and as we sat around the campfire, enjoying its succulent goodness, our forgiveness was complete. In fact, we were a little proud of him.

The next morning we lashed everything securely in the canoe as insurance against Nero's uncertain impulses, gave him a thorough briefing in canoe etiquette, and shoved off, hoping for the best.

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Can you spot the **BIG LOSER** on this scorecard?



★ TRANSPORTATION SCORECARD ★					
	RAILROADS	INTERCITY TRUCKS	INLAND WATERWAY CARRIERS	AIRLINES	INTER-STATE BUSES
Does carrier build and maintain the "roadway" which it uses?	YES	NO	NO	NO	NO
Does carrier pay property taxes on its "roadway" for support of the general services of government?	YES	NO	NO	NO	NO
Does carrier meet all its true costs instead of being helped by tax money?	YES	NO	NO	NO	NO
Is carrier compelled to maintain routes and services which do not pay their own way?	YES	NO	NO	SEE NOTE #1	NO
Are carrier's rates regulated by government agencies?	YES	SEE NOTE #2	SEE NOTE #3	YES	YES

#1. Any mail-carrying commercial airline which operates at a loss receives additional Federal subsidy to cover its deficit.

#2. Only 38% of inter-city truck transportation is regulated, in part, by the Interstate Commerce Commission.

#3. Only 12% of inland water transportation service is regulated to some extent. Water carriers enjoy special protection from railroad competition.

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Most of the things you enjoy in your daily life — your home, your car, your clothes, the food you eat — are available to you in such quantity because America enjoys the world's greatest system of mass transportation. And the better that system works, the better for you.

But when that system is not permitted to work at its best, it is *your* loss.

As you can see from this scorecard, only the railroads among these transportation agencies are meeting all their true costs without help from tax money.

And yet, railroads are subject to such laws and regulations, both in their rates and in their services, that they are not allowed to compete with other forms of transportation on an equal basis.

This costs *you* money in two ways — in higher taxes and in higher *real* costs of transportation.

You can help get lower *real* costs — and lower taxes, too — by supporting measures, state and national, which will put all forms of transportation on an equal basis — and which will give America's railroads freedom to compete.



**Association of
American Railroads**
WASHINGTON 6, D. C.

We got out our rods and caught several nice trout along the way. We passed a box canyon that used to be an old outlaw hideout, we saw hundreds of ducks and geese, and we had several thrilling runs through fast water. All in all, we had a wonderful day—that is, until we went ashore at sunset. We landed safely but while we were unloading our outfit, Nero started a commotion in the bushes at one side of camp.

"Another rabbit," Marlin said, and we ran to help Nero capture it. I glimpsed a small animal waddling at full speed for a tall pine tree with Nero in hot pursuit. I saw what it was.

"Nero!" I shouted. "Nero! Stop!"

The animal's fur seemed to stand on end and Nero dived in for the kill. He let out a yelp of anguish and backed away with pained surprise. He eyed the small animal unbelievably, then tried again. Again he yelped and backed away. His would-be prey was a porcupine! He came to us whining and pawing at his nose. His face was filled with porcupine quills—and an expression of deep betrayal.

We took him down and plucked all the quills from his face, then painted it with iodine. "There, stupid," said Marlin. "Let that be a lesson to you. Sure hope you don't find a skunk."

You might think that Nero's misadventures would have tamed him a little but the next morning he got excited and snapped at a huge trout Marlin had hooked and was trying to boat. He missed the fish but bit the leader in two.

Marlin disgustedly watched the big trout swim away. "You'd be in the doghouse," he growled at Nero, "—if we had one."

And that wasn't all. Later in the day Nero fell overboard trying to catch a butterfly. What a dog!

But when we brought our canoe triumphantly to shore at the edge of our town, feeling strong, self-reliant, and very much like rivermen, I guess Nero felt that way too. He bounced ashore and started up the street with all the swagger of one of Columbus's sailors returning home after discovering America.

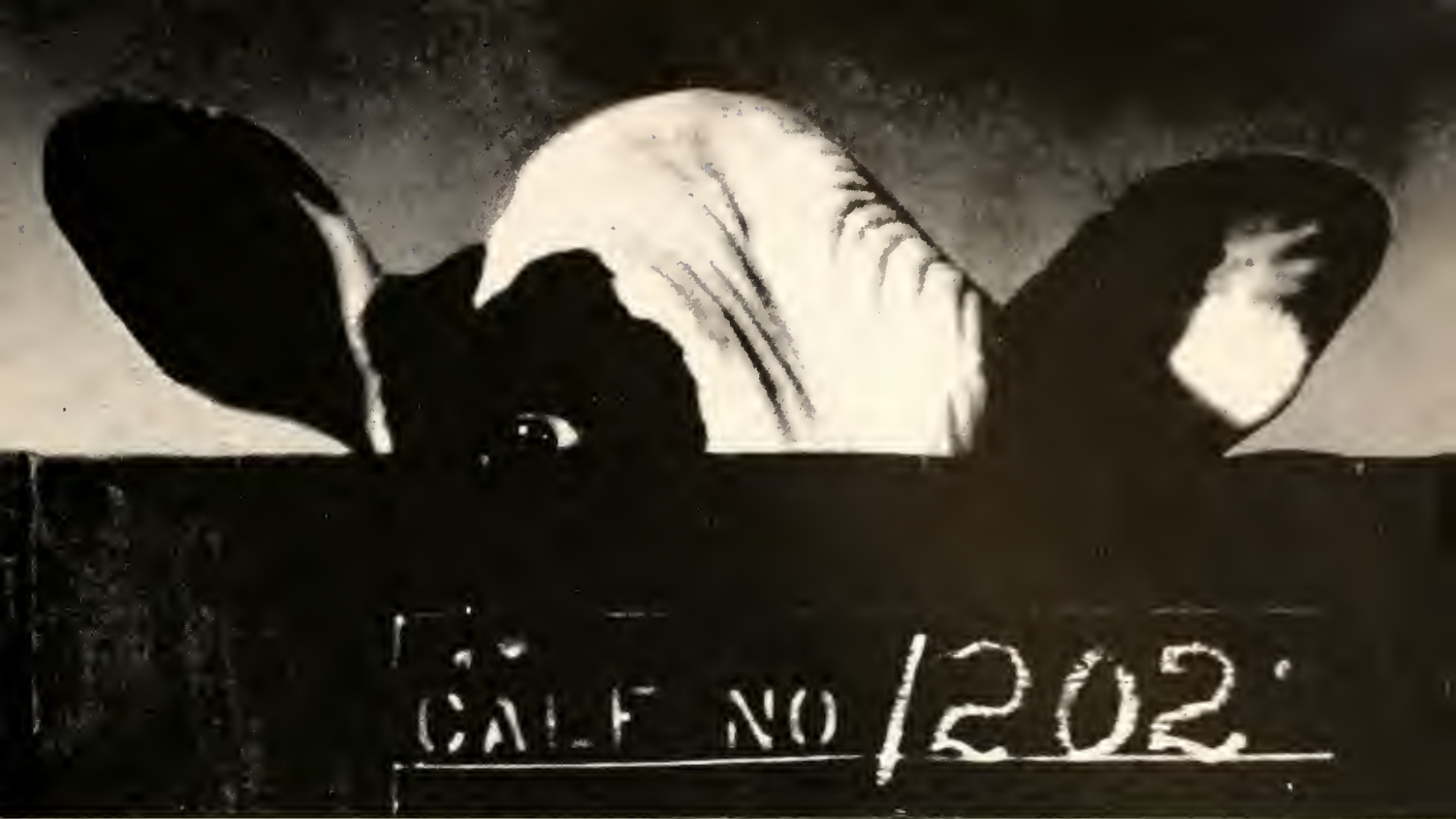
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This takes a lot of time and effort. Sometimes the animals just won't hurry their answers. But sooner or later we get the facts—and facts are the building blocks of all General Mills livestock and poultry feeds.

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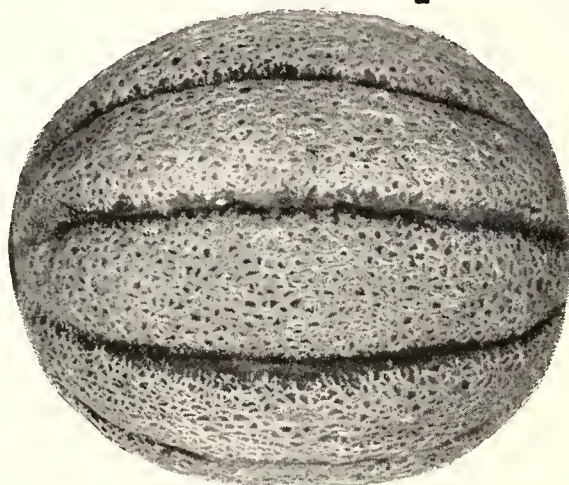
Minneapolis, Minn.

*The Larro Research Farm was the first industry-sponsored research farm. It is presently located at Detroit, Michigan, but plans have been announced to move the farm to Indianola, Iowa. When the move is complete, the Larro Farm will be the largest animal feed research farm owned by a feed company.

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U. S. Jaycees launched their own phase of the program in mid-March, with emphasis on agricultural aid. One state FFA association has already joined the project.

In July, 1956, elections will be held in Viet Nam. The issue is communism vs. democracy and a large part of Asia hangs in the balance.

Types of materials needed are: small agricultural implements, construction tools and materials, livestock and poultry, medical and sanitation materials of all kinds, education materials, and clothing.

Cartoon Contest Winners

First Prize \$15

"I can look after your interests!"

Harold Turner

Pelzer, South Carolina

Second Prize \$10

"It is doubtful that I'll ever be a farmer!"

Leigh E. Krepper

Chambersburg, Pennsylvania

Third Prize \$5

"You thrill to its easy handling!"

Gerald Clift

Jenks, Oklahoma

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Robert Carteyn, Bryan, Ohio

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 Bobby Tate, Haslet, Texas
 Clyde R. Lewis, Glenwood, West Virginia
 Clark Reber, Mesquite, Nevada

(Watch for another big Cartoon Caption Contest in the Summer issue! Thanks to the more than 1,600 who entered this contest—you made it real hard to select the winners. EDITOR).

Hank's Neighbor

A former farm boy from the state of Washington has developed an ointment for treating athletes foot, ringworm, and other fungus-caused diseases. He is Dr. L. M. Ames, now a research mycologist living at Mt. Vernon, Virginia, near *The National FUTURE FARMER* office.

The ointment is manufactured and packaged by Dr. Ames in his spare time at home. Called AFO (Ames Fungicidal Ointment), it has been approved by the Ft. Belvoir Army Hospital and has been cleared by the Food and Drug Administration.

Dr. Ames developed the ointment after years of research with fungi related to skin diseases. His profession is properly known as mycology, or the science of fungi.

The medication is sold on a satisfaction guaranteed basis. Explaining that his interest is research and not business, Dr. Ames plans to use the money from the sale of the ointment to further his research work. The price is \$1.25 for a one-ounce tube, two for \$2.00. It can be obtained by ordering direct from Dr. L. M. Ames, the L. M. Ames Corporation, Mt. Vernon, Va.

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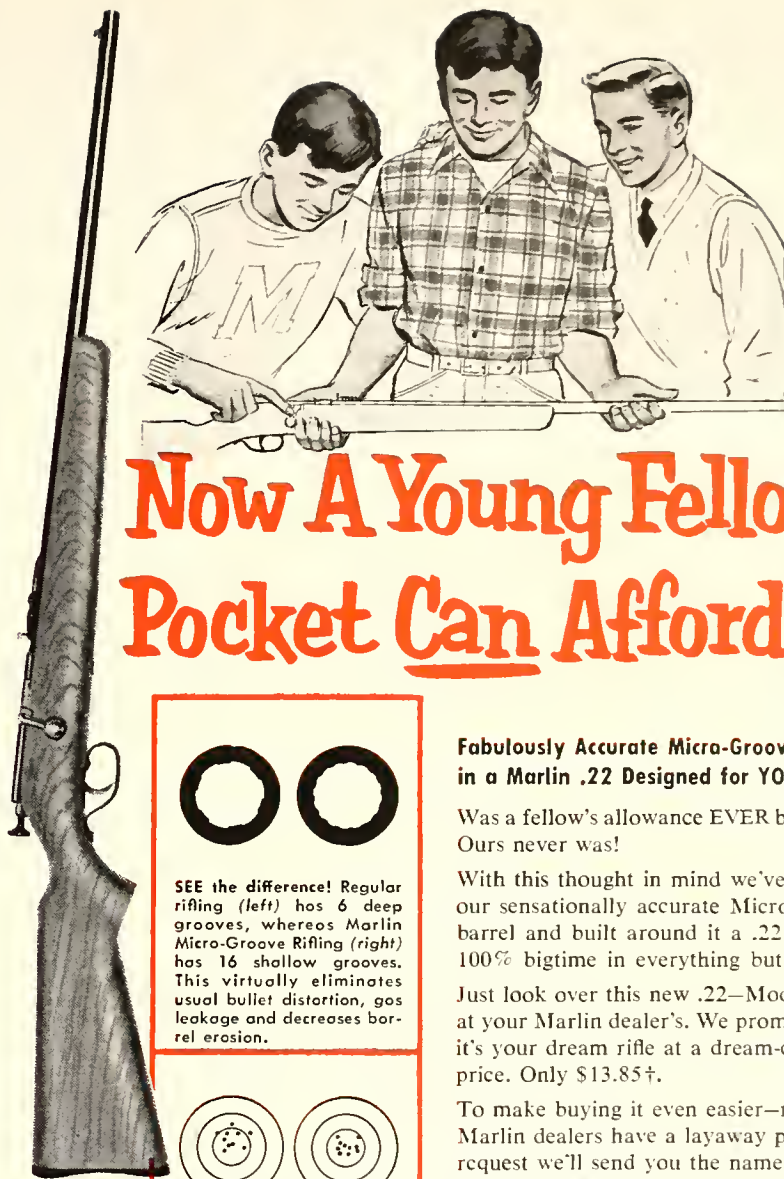


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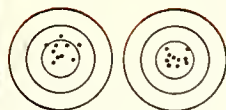
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Now A Young Fellow's Pocket Can Afford it!



SEE the difference! Regular rifling (left) has 6 deep grooves, whereas Marlin Micro-Groove Rifling (right) has 16 shallow grooves. This virtually eliminates usual bullet distortion, gas leakage and decreases bore erosion.



SEE the difference! Two ten-shot targets fired at 100 yards by a noted gun editor and marksman—(left) with conventional and (right) with Micro-Groove barrel. Marlin Micro-Groove delivers dramatic, proved accuracy increase. Micro-Groove now available in all Marlin bolt, semi-auto and lever action .22's at no extra cost.

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Just look over this new .22—Model 100—at your Marlin dealer's. We promise—it's your dream rifle at a dream-come-true price. Only \$13.85†.

To make buying it even easier—most Marlin dealers have a layaway plan (on request we'll send you the name and address of Marlin dealers near you). Marlin guns also sold in Canada.

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Bolt action single shot with super-accurate Micro-Groove barrel. Shoots .22 Short, Long and Long Rifle cartridges. Beautifully balanced and perfect weight for hiking, only 4½ lbs.

* Patent pending.

† Slightly higher west of the Rockies; subject to change without notice.

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 ... THE MIRACLE
 THAT PAYS YOU AN
 ACCURACY BONUS
 RIGHT FROM
 THE START!

THE NAME FOR GAME

Marlin

FINE GUNS SINCE 1870

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Send me catalogue with information and photo-illustrations of Marlin Guns, plus new cartoon booklet, "More Fun with Your .22 Rifle." I enclose 10c for handling.

Name _____

Street _____

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The First One Doesn't Have A Chance!

He: "May I kiss your hand?"
She: "What's the matter, my mouth dirty?"

Norman Robinson
Canton, Oklahoma

Son: "Pop, how much does it cost for a marriage license?"

Pop: "Two dollars down and from then on all you make."

Howard Chronister
Eau Claire, Michigan

Quick Thinking: The real estate salesman was dead-set on selling a piece of property. "It's a great place," he said, "and the climate is so healthful. People just don't die around here!" Just then a funeral procession came into view. Said the salesman, gravely: "Poor old undertaker, he starved to death."

Elmer Meyer
Melrose, Minnesota

The definition of a radio announcer: A person who talks until he gives you a headache and then tries to sell you something for it.

Larry Kysar
Delhi, Oklahoma

Sign near school: Drive slow. Teachers are scarce!

Eugene Butler
Riverton, Wyoming



Stern papa: "Young man, are you able to support a family?"

Son-in-law to be: "Well, Sir, in a pinch I suppose I could, but all I aim to do now is to support Mabel. The rest of you will just have to shift for yourselves."

Whoever sent us this joke forgot to sign his name. If he'll send it to us, we'll send him his dollar.

Gerald: "If I kissed you would you call your old man?"

Jane: "Why? Do you want to kiss him too?"

Monty Rider
Chloe, West Virginia

Marriage license: a legal paper that lets you keep the game in captivity after the hunting season.

Eugene Butler
Riverton, Wyoming

Banker's son: "My father makes \$50 an hour for just sitting at a desk."

Lawyer's son: "My father talks for an hour and makes \$100."

Minister's son: "That's nothing. My father preaches for an hour, and it takes eight men to pick up all the money."

Bruce Wright
Catawba, Virginia

Two little girls had just returned from a big birthday party, tired out and sleepy. Betty hopped into bed at once. "Say!" exclaimed Janie. "Aren't you going to say your prayers?"

"Oh, no; certainly not!" said Betty. "I wouldn't think of waking God up at this late hour!"

Perry Stephens
Lilburn, Georgia

Little boy to bride at wedding reception: "You don't look nearly as tired as I thought you would."

Bride: "Don't I? Why did you think I would look tired?"

Boy: "Well, I heard Ma say you had been running after Mr. Black for months and months."

Evelyn Bowlin
Liberty, Mississippi

A small boy was trying to ring a doorbell but wasn't tall enough to reach it.

A preacher came along and saw him and came over and rang the doorbell for him.

Preacher: "Now what do we do?"

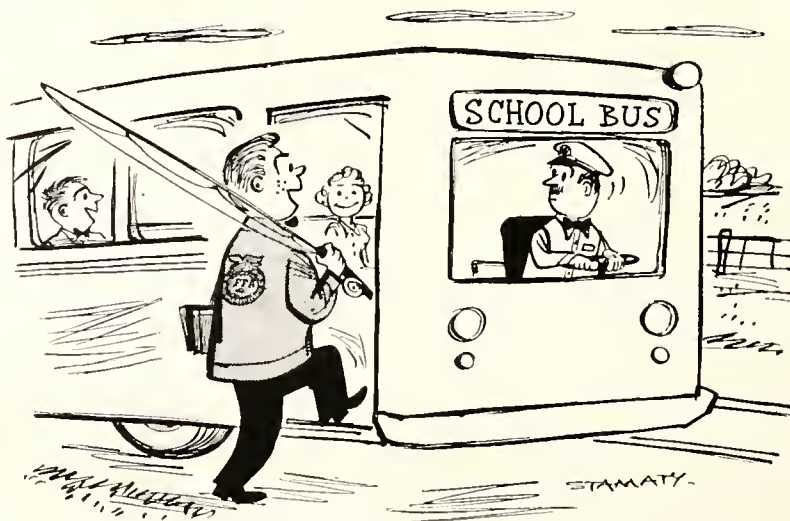
Small boy: "I don't know what you're going to do, but I'm going to run like everything."

Ellis Atkinson
Morgan, Missouri

Dwight, Egbert, Johnnie, or Charlie, THE GREEN HAND

We're having a run-off. There was a tie between all four names above. (See page 6). So choose the one you prefer and send it not later than May 15, 1955 to The National FUTURE FARMER, Box 29, Alexandria, Virginia.

(Remember, too, every subscriber may vote—so get as many to sign your letter as you can.)



"Please stick to the outer lane along Wolf Creek."

The National FUTURE FARMER will pay \$1 for each joke published on this page. Jokes should be submitted on post cards addressed to The National FUTURE FARMER, Box 29, Alexandria, Virginia. In case of duplication, payment will be made for the first one received. Contributions cannot be acknowledged or returned.

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Service—where you want it—when you want it.



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Breathe easy
AT HAYTIME

Fifty tons of choice green hay saved from rain spoilage can more than pay for your own ROTO-BALER. It's a million-dollar feeling to know that the well-being of your herd is assured by nutrition-packed feed, safe and dry in round bales.

Rain-resistant round bales shed water like a thatched roof—defend the hay inside against spoilage!

They are easy to handle with loader, elevator or hayfork. Round bales can't buckle or burst open. There's no wire to endanger livestock.

Round bales can be self-fed whole if you like. Livestock help themselves—eat the curving, leafy layers without waste.

Catch your hay at its early-blossom best. Beat the weather. Bale fast . . . take a *double* windrow.

With a "home-owned" ROTO-BALER, you're always "ready to roll." You can breathe easy—good weather or bad!

Round bales "breathe"

New soft-center attachment—now regular equipment—forms a center core of loose hay for better aeration and faster curing . . . automatically increases density in outer bale layers for better weather-proofing and desired bale weight. Available for ROTO-BALERS now in service. See it at your dealer's now.



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