**Mission Services Planned At First Christian Church**

Six Christian Church boards in Western Kentucky will meet in the evening Friday night to talk about the work of the Kentucky Christian Commission, during Sunday school at 9 a.m. and in the church building on Monday at 7:30 a.m. In addition, the Medical and Social Services Committee of the Kentucky Christian Commission, conducted on Tuesday, will hold its meeting at 7:30 a.m.

**Rites Are Held Today For W. Vernon Owen**

Funeral services for W. Vernon Owen were held today at two p.m. at the church. The service was conducted by Rev. T. G. Fincate, a member of the Board of Directors of the Kentucky Christian Commission. Also conducting the service were Rev. O. M. Price, director of the Board of Directors, and Rev. W. L. Conner, pastor of the church. The service was held in the church and was conducted by Rev. W. L. Conner, pastor of the church.

**Shake it off Woman's Club**

The Shake it off Woman's Club will meet at the club room tonight at 7:30 p.m. The club will be discussing the nomination of new members for the club. All members are invited to attend.

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Ten Years Ago Today

Covington Country ranks high in the United States as a automobile population. The 1950 census shows that there are more than 100 families here who are in the most common age group for car ownership. A record of comparable areas will be given by John H. Warner on Sunday in the National Press Club, Murray State College.

An important article on the subject of "High Schoolers and Their Parents" was published at a party to celebrate the 10th anniversary of her second birthday by her mother, Mrs. O. R. Neale, 72.

20 Years Ago Today

Deaths reported are Carl A. Leach, 46, Robert Gay Nelson, Diane A. Perry, and Forney S. Tinsley, the latter three having
been...[-]

Bible Thought for Today

But those are written, that ye might believe that Jesus is the Christ, the Son of God; and that believing ye might have life through his name. (John 20:31)

John wrote his gospel to give "true light" and life to all people. He desired that all may hear and understand the gospel message of salvation through Jesus Christ. (John 1:9)

THE LEDGER & TIMES

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700 Broadway, Murray, Kentucky 42071

STATE REPRESENTATIVE: WALLACE WITMER 00, 1509 W. Ave., Muncie, Ind.

SOUTH BEND, Ind., Dec. 19, 1971 (AP) - Federal...[-]

THE LEDGER & TIMES • MURRAY, KENTUCKY

Mental Health Matters

Starley F. Yolles, M.D., Director
National Institute of Mental Health

PHYSICAL EDUCATION $1.55

Physical education and sport activities can be a source of stress and anxiety for children. The benefits of physical activities for the mental health of children are well known. Physical activities help children develop a sense of accomplishment, self-esteem, and social skills. They also help children manage their emotions and improve their ability to cope with stress.

HAWAIIAN ABORTION LAW EFFECTIVE TODAY

A law permitting doctors to perform abortions in hospitals as part of their regular medical practices went into effect at midnight without the signature of Gov. John A. Burns, a Democrat, who said he opposed the measure.

POOR OR POLLUTION

WASHINGTON (UPI) - The high court today upheld the decision of four new states to close the nation's largest federal aid program, according to a federal judge who rejected the challenge to the program.

LOW EFFECTIVE TODAY

SALT (UPI) - Federal law went into effect today, making...[-]

FARMERS GRAIN AND SEED CO.

Merchandise, Hay, Seed and Fertilizer

The American Red Cross

Farmers Grain & Seed Co.

Phone 322-54

Bedsprays

Nylon Braided Rugs

FOR CLOTHING

In the United States

BOWLING STANDINGS

THURSDAY COUPLES BOWLING LEAGUE Week 5 of 59

Interstates 31 51 40 37 37 37 37

Bibbins 37 26 26 26 26 26 26

Harrison 37 26 26 26 26 26 26

Bowen 37 26 26 26 26 26 26

Hodges 37 26 26 26 26 26 26

Henderson 37 26 26 26 26 26 26

Parker 37 26 26 26 26 26 26

HAWAIIAN SAYS "NO"

The Hawaiian legislature on Thursday voted to make it against the law to perform abortions in hospitals as part of their regular medical practices.

The law is expected to go into effect at midnight with the signature of Gov. John A. Burns, a Democrat, who said he opposed the measure.

The law states: "No person shall...[-]

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Mideast Regionals Rated As Toughest In NCAA Tourney

By United Press International

By United Press International

Form and logic dictate that St. John's and Kentucky bring a 25-1 record and Notre Dame a 29-1 record into the rounds of the NCAA basketball tournament.

Perhaps the toughest of the regional contests will come up against one another with the St. John's men taking on the Kentucky women in the opening round of the Mideast Regionals.

The Redmen, led by Howard Porter and the balanced attack, led by Howard Porter and the balanced attack, were one of the nation's best zone defenses, and figures to prove too strong for Kansas State.

On a more sedate note, Dock Ellis, Jim Nelson and Denny Nevers belted one home run apiece as the Cincinnati Reds beat the Chicago Cubs, 6-4.

The outcome of the Mideast Regional is still a tossup.

The Lakers and Cardinals tonight.

Callaway Lakers Bow To Mayfield

The Callaway County Lakers lost their second-straight contest last night with a 74-74 tie to the Tuscaloosa, Alabama, High School team.

The Lakers led by Howard Porter and the balanced attack, led by Howard Porter and the balanced attack, were one of the nation's best zone defenses, and figures to prove too powerful for Kansas State.

In this year's opening round of the Southeast regional, the Georgia Tech -

Wills Says New "Jackrabbit" Ball Will Bounce Like Bullet

BY CARY KALE

The new professional baseball will bounce like a "Jackrabbit" ball, according to "Jack Rabbit" Wills, a former major league pitcher.

"We Do All Our Own Bar-B-Q and Ham Carry-Out

A COMPLETE BAR-B-Q HEADQUARTERS

Hawks And Rockets Move Closer To Goals Wednesday

Hawks And Rockets Move Closer To Goals Wednesday

The Atlanta Hawks and the Houston Rockets both managed to improve their respective records Wednesday.

The Hawks, after slipping into overtime with the Memphis Grizzlies in the National Basketball Association's Western Conference game, went on to win the game with 10 seconds remaining.

The Rockets also went on to win over the San Diego Padres with a score of 1-0.

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Silver Anniversary

Mr. and Mrs. Kenneth Woods

Mr. and Mrs. Kenneth Woods will celebrate their silver wedding anniversary on Saturday, March 13.

One of the goals of the Murray Women's Club during March is to support the Second Item Project, which involves collecting non-perishable food items for distribution to those in need.

Dr. Harrell Guest Speaker

To the Members of the History Department of Murray State University, I am pleased to announce the guest speaker for our next meeting, Mrs. C. W. Jones, who will be speaking on the history of the Murray Women's Club.

Woman's World

Mrs. B. J. Burkeen

James Home Science of South Pleasant Grove Meeting

Mrs. Clifton Jones served as the moderator for the meeting of the James Home Science of South Pleasant Grove. The meeting was held at the home of Mrs. James Jones on March 12.

Speaker At Theta

Dr. Harrell Guest Speaker

Department Meet

Due to spring vacation, the Department Meet was held on March 10.

Questions and Answers

A question and answer period was conducted during the meeting.

Rob Ray, chairman of the department, presented the topic of the meeting.

Due to the inclement weather, the department meet was held on March 12.

Memorials

Memorials were read during the meeting.

Prayer in Unison

The meeting was concluded with a prayer in unison.

This Week's Special!

This is a special section of the newspaper dedicated to highlighting upcoming events and special offers.

The regular $16.99 price will be reduced to $12.99 for a limited time.

Frigidaire (one only)

The model WC I is available for sale.

BEN FRANKLIN

DOWNTOWN, MURRAY

LOW LOW PRICES

Pant Hose
Reg. $1.59

Now 57c

Royal Stationary
Regular $1.00

57c

TRASH CANS
Reg. $3.79

Blouses
$2.22

Electric Blankets
Regular $16.99

$8.44

Laundry Basket
Regular $2.49

$1.17

Coconut Hay Stack
66c bag

44c

BEN FRANKLIN

“Come to Ben Franklin...Shop Where Your Neighbors Shop”
WARD-ELKINS

16TH ANNIVERSARY SALE

Last week was the best response we have ever had, to any promotion we have had. There is no way we could really express our thanks to our customers, but we are going to try. After 16 years, we know that as long as we give you the most for your dollar, this is our way of saying Thank You. We will continue to sell these real "old fashioned" prices as long as the merchandise lasts. Perhaps you have heard business is slow, sales are down . . . don't you believe it. True, money is harder to come by, and we know this, so as always, we give you bigger and better buys than anyone else, and back it with service that satisfies, and this is why we are the biggest dealer in the area.

FRIGIDAIRE RANGE
One Only .

WARD - ELKINS

FOR GUAR- PROOF WASHDAYS this Frigidaire Washer has 6 Fabric Settings

- Fabric Selector. Set it for what you're washing! It picks the right water temperature, detergent, and spin speed.
- Deep Action Agitator. Plunges clothes deep into sudsy water for thorough washing.
- Automatic Soak Cycle. Ideal for heavily soiled clothes.
- 2-Position Fabric Selector. Saves hot water, helps prevent shrinking and fading.
- Automatic Water Selector. Saves hot water, helps prevent shrinking and fading.
- Fabric Selector. Set it for what you're washing! It picks the right water temperature, detergent, and spin speed.

Goof-Proof Drying, too. Matching Frigidaire Dryer with Durable Press Care

- 2-Position Fabric Selector—has Regular plus Deli-
- Dur Press Care—proper temperature plus end-
- No-stoop Dacron UM screen
- Matching Frigidaire Dryer

UP TO 6 MONTHS TO PAY

Stores in . . .

- Paducah
- Mayfield
- Murray
- Paris, Tenn.

WARD - ELKINS

"ON THE SQUARE" IN MURRAY, KENTUCKY
Strange Little "Gun" Helps Fight Against German Measles

By Lois Campbell

The gray train has stopped, running through the students and staff of the campus. The day is sunny, and the sun is shining through the windows.

By the time 12:30 P.M. arrived, the class was filled with students. The professor walked into the room, and the students fell silent. The professor began to explain the day's lesson, and the students listened intently.

The professor's lecture was slow and deliberate. He paused often to write on the blackboard, and the students copied down his notes. The professor used a variety of examples to illustrate his points, and the students were able to follow along easily.

As the lecture progressed, the professor's voice grew louder. The students started to yawn, and a few began to rub their eyes. However, the professor pressed on, and the students stayed focused.

At 12:50 P.M., the professor announced the end of the lecture. The students stood up, and the professor shook hands with each of them. The students walked out of the classroom, heading for lunch and their next classes.

The day's lesson had been challenging, but the students were determined to succeed. As they walked through the campus, they knew that they were one step closer to graduation.
Kentucky Traffic Courts Should Have A Higher Conviction Rate

By James D. Sewell

Facts and figures from recent studies by the Kentucky Traffic Safety Coordinating Committee indicate that the majority of violations of Kentucky's traffic laws have been going undetected. Previous records of offenses, some of them being quite lengthy, were forwarded to the author since the driver in question had gone on bail. In any case, the driver had no intention of driving until convicted or having his charges dismissed. Nevertheless, these people continue to drive illegally. It should be noted, however, that the full impact of speeding laws is not always evident. Moreover, it is estimated that one-third of fatal accidents and 100 percent of fatal incidents are due to speeding. Since most accidents take place on weekends, it is not surprising that a large number of people are killed on the highways. Let the record stand for all to see that the fine double coupon of more severe penalties for those who commit speeding violations is a recognition of the fact that these people should not be permitted to drive illegally more frequently. The punishment for driving with a revoked license is the equivalent of a blank check. Moreover, it is not always evident that people are driving illegally. Nevertheless, these people continue to drive illegally. It is hoped that the names of violators will be publicized throughout the state. It is also hoped that the names of violators will be publicized in the local newspapers. It is also hoped that the names of violators will be publicized in the local newspapers. It is also hoped that the names of violators will be publicized in the local newspapers.

DEAR ABBY: I think I am too flat for my age. My measurements are 27-22-27. I am eleven years old and am 4 feet 4 inches tall. I wish my mother would get me a bigger bra so I would look more like my girl friends. I asked her once, and she said she would get me a bigger bra when I need it, and not until. Abby, I wouldn't want a bra that looked too padded for a girl my age, but don't you think just a little padding would look better? FLAT AS A PANCAKE, Los Angeles, Cal.

DEAR ABBY: I am absolutely certain that the letter from the man who said he had a rubber chewer had his tongue (sans rubber ditch) in his cheek. He wrote that letter. Being out of a few years, I am sticking to the Committee requesting information concerning traffic violations. Since the files contain most of these figures may not be reliable. However, the full impact of speeding laws is not always evident. Moreover, it is estimated that one-third of fatal accidents and 100 percent of fatal incidents are due to speeding. Since most accidents take place on weekends, it is not surprising that a large number of people are killed on the highways. Let the record stand for all to see that the fine double coupon of more severe penalties for those who commit speeding violations is a recognition of the fact that these people should not be permitted to drive illegally more frequently. The punishment for driving with a revoked license is the equivalent of a blank check. Moreover, it is not always evident that people are driving illegally. Nevertheless, these people continue to drive illegally. It is hoped that the names of violators will be publicized throughout the state. It is also hoped that the names of violators will be publicized in the local newspapers. It is also hoped that the names of violators will be publicized in the local newspapers. It is also hoped that the names of violators will be publicized in the local newspapers.
MANAGING TIMBER
FOR PROFIT MEANS
MUCH HARD WORK

By Albert Ramses

Managing timber for a profit requires more from the landowner than simply selling trees that are big enough to make a profit. A woodland owner must plant, fertilize, prune, improve the land, and sell the crop.

Because of good management, the timber has increased in value, and the quality of the land has improved through better equipment and tools. The work can be done in forest management.

The big difference between forest management and farm management is the time required to raise and sell the product, whereas the woodland crop is growing a crop that matures in 20-60 years.

This is where good forest management becomes important, not only in this time period, but on how to get the highest possible level of quality.

As stated above, there are basically three things that a forest manager should do for the landowner. They are (1) increase the value of the crop, (2) make use of the underutilized space, and (3) increase the value of the land.

As OAKGRAVE WORKER:...
Why should Hospital Bills make you sick?

This new plan pays you up to $50.00 per day when any member of your family is hospitalized... even if your hospital bill is less.

- Protect the whole family... before and after Medicare!

The Benefit Trust Life Daily Benefit Plan pays you up to $50.00 per day when any member of the family is hospitalized—for every sickness, accident or maternity—to a maximum of 60 days. You either* from $1.00 ever if your hospital bill is less than the daily payment you choose. Ask your trust office or your agent how you can also have coverage for maximum hospital expenses up to $75,000. The premium is as low as $12.00 per year for a family of four.

This plan is guaranteed renewable for life, regardless of change in your health!

For complete information—without cost or obligation—get this free folder. Mail the coupon today.

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LIFE INSURANCE COMPANY

P.O. Box 61, MURRAY, KentuckY 42071

NAME:
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CITY:
STATE:
ZIP:

[Space for signature]

*Other than the waiting period.

For more information about the Benefit Trust Life Daily Benefit Plan for your family, contact your local trust office or your agent.
to favor the bulls over the next advisable. The firm sees the...

NEW YORK (UPI) - The current market resembles the foot stool complete with everything you'll need. Regular Value. Come In and Register!...
Dr. L. V. Henson Celebrates His 97th Birthday

Dr. L. V. Henson wished to acknowledge his 97th birthday Sunday, March 8, 1970.

They may wonder if we do ordinary things in the morning, however, the fact of the matter was that Dr. Henson was up in the morning.

Dr. Henson's birthday came on a day when he was at work in his office.

His family and friends attended a special birthday party for him.

Dr. Henson resides with his wife, Miss Elizabeth Henson, in their home in Murray.

During this special occasion, Dr. Henson was presented with a birthday cake and a birthday card.

Dr. Henson is a graduate of Kentucky Medical College and has been practicing medicine in Murray for over 50 years.

Dr. Henson has served as a member of the Board of Trustees of the University of Kentucky and has been a member of the Board of Directors of the Murray State University Foundation.

Dr. Henson has received numerous awards and honors for his contributions to the field of medicine.

In conclusion, Dr. L. V. Henson's 97th birthday was celebrated with love and appreciation for all he has done for the community of Murray and the state of Kentucky.
5 Years Down the Road

DAN HUTSON, President

Let's "look five years down the road."

Higher yield goals, heavy demands upon the soil, gov-

ernment programs, weed control, insect and disease

problems, and profitability all expect a whole new
planning and production. Planning and production
requirements are not just year-by-year propositions.
They will extend their crop productive
life for more than five years, because the
long-range picture can no longer be met on a year-
by-year basis.

Farmers have demonstrated to us an interest
in planning their crops and profits so they know how they
stand over longer periods of time. Our response
has been to extend our organization, equipment and
programs to meet this pressing need for future planning.

A big step in that direc-
tion is the involvement of the Super Q program. This
program gives us--as in
creasingly more farmers recognize--a big resource in
research, technical, and communications assis-
tance. We realize that you
discovery must be furthered
down the road and plan
ahead. This planning re-
quires greater technical knowledge and guidance
than you—8 busy businesses
with.

In this Super Q program we are offering you greater
depth of technical
knowledge through the research
facilities and manpower of the
Growth Sciences Center
at Libertyville, Ill., and
field PhD agronomists who are actually working with
you on the farm. Intensive
tissue and soil sampling
and actual research plots
on farms in this area are
part of the program.

It is through these ef-
forts that sound
information is determined
by trained, professionally
oriented technicians to give
you a basis for long-term
planning. Our agronomic
service is gathering infor-
mation which can point out
trends for you in such
important areas as fertilizer
requirements, weed con-
trol, insect and disease
management, variety
response, row spacings, nitrogen use,
and potassium use.

Along with this technical
help, the Super Q program had
an active communications
program to assure that
you receive information,
in the most under-
standable form, from the
research and teaching ef-
forts. Such information is
dispersed in this news-
paper, "The Farm News,
agronomy reports, farm
meetings and demonstra-
tion plots.

These features of the
Super Q program together
with our own stepped up
efforts to train our own
forces more thoroughly in
grownistics and crop pro-
duction give us an appealing
program to help you "look five years down the road."

Why not join us in
helping you look with
deader into your crop
programs so that you can
plan and produce better
and enjoy a better way of
life for you and your fa-
ty—not just next year,
but 'five years ahead.'

We've invested heavily
in facilities and manpower
to help, so why not take
advantage of our service.
No-Till Corn -- A Growing Practice in Kentucky

RESEARCH RESULTS SHOW NO-TILL CORN IS PROFITABLE, PRACTICAL

In recent years, University of Kentucky research, as ICS field representatives, have been involved in minimum tillage techniques in order to grow corn for grain and silage on land not considered conventional planting procedures. The increased demand for more food has encouraged the farmer to take a second look at these new practices.

This new technique goes by many names, from "No-Till" to "Minimum - Till," "Zero - Tilling," and the principal of saving labor and soil are still the same. The purpose is to plant and harvest a profitable crop of corn in a field. All the no-till method involves is growing a cover crop with less soil disturbance, and the growing cover crop of farm land encouraged the farmer to take a second look at these new farming techniques.

"No-Till" corn planting consists of planting the seed in a dead mulch with the least soil disturbance necessary for proper placement, germination and growth of a profitable corn crop. The weeds are controlled by the application of herbicides prior to planting or by fall applications. The principal of saving labor and soil is adaptable to all corn growing areas of the United States and is described as "Zerotill." The adoption of one-half or one-quarter of a profit per acre or equivalent is desirable. Use the principal of saving labor and soil are still the same.

ADVANTAGES OF THE NO-TILL SYSTEM

1. Yields are comparable to conventional planting techniques. Some yields above 200 bu/acre have been obtained in research plots in Virginia. It has been clearly demonstrated to offer superior erosion control. Yields have increased, and the long-term potential and possible yields are being discovered. (See date of planting section for Kentucky yield data.)

RESEARCH RESULTS

Kentucky - No-tillage is without doubt the most promising new grain production practices. It has been clearly demonstrated to offer superior erosion control. Yields have increased, and the long-term potential and possible yields are being discovered.

SOIL ADAPTATION

All soil types generally suitable for corn production can be planted by the No-till system.

GOOD CROPS MAKE

Personnel and annuals are suitable for No-till corn, perennial grass such as orchard grass, tall fescue, bluegrass and mixtures of these grasses and annuals. These individuals are generally easy to kill and make excellent mulches. Pre-emergence use of herbicides is less desirable because of faster decomposition and lesser dry matter. Annual cover crops such as rye are very desirable because of ease of establishment, winter hardiness, ease of kill, and least soil disturbance.

SEEDING RATES

In Kentucky, where most of the No-till corn is in narrow rows (20 inches), final stands of 22,000 to 25,000 plants/acre are suggested for double cross hybrids. If a final stand of 20,000 plants/acre is desired, plant at least 24,000 kernels/acre and thin less is greater than with conventional planting methods. Beans may be more of a problem in soils than in plowed fields. Seed thinness and re-pellets are generally worth the additional cost.

SEEDING/special problems

Where No-till corn is planted the second-year following No-till corn for silage, it is desirable to sow a water cover crop. This will provide a mulch and ground cover for next year. Bare soil drains out faster and may produce a poor stand and poor yields.

W. T. Kingings of New Concord, Ky., grows tobacco and is a general farmer. He's a Hutton customer.

Soil acidity is one of the biggest and most common factors in reducing fertilizer efficiency and plant growth.

Walter N. Cason, 1. Clinton, Ky., has a 250-acre farm which is part in corn, soybeans and wheat each year. He has averaged 38 bu. per acre, and he raises rye and wheat to support his entire livestock program. He topdresses the corn, for the same period, has averaged over 100 bu. per acre. He has a fertility program, he says, "I give my acreage to corn and every other year I plow down 200 lbs. of 60 per cent potash and 200 lbs. of 46 per cent phosphates. Each year I add 250 lbs. of 5-24-24 in the row at planting time." He works out his fertility programs with Farmers Gin Co., Clinton.

Hollis R. Hilliard of Clinton, Ky., stands beside a spreader cart of Farmers Gin Co. In that city, along with farming 1,000 acres, this Hicman Co. agriculturist is a Clinton civic leader and is president of the hospital board. He raises cattle, hogs and sheep and grows corn and hay to support his entire livestock program. He topspreads about 600 acres of small grain and pasture each year. All fields are soil tested and he applies fertilizer according to recommendations.

GRAZE SMALL GRASS WHEN THEY ARE 8 INCHES HIGH

They are never cut. Sod crops are valuable for pasture uses. Small grains are 8 inches high when pasturing compared to grazing when only 4 - 6 inches tall.

PARENTS OF XXXX

Research has shown that small grasses will produce twice as much fall grazing if allowed to reach 8 - 10 inches height before pasturing compared to grazing when only 4 - 6 inches tall.

PLANTING DATES AND CORN YIELDS

Corn Yield (Bu/A) Date Planted

April 25 114.6
May 1 152.1
May 29 127.7

* Univ. of Kentucky 1968 data

CORN NITROGEN REMOVAL

Yield (Bu/A) Nutrient Removal (lbs./Acre)

N P K Ca Mg S
100 150 60 125 40 33 22
150 220 80 195 58 50 33
200 320 105 250 65 66 44

This work was supported by funds in Project 682 Research is made available through financial assistance from the United States Department of Agriculture.
Soil Plant Analysis Results

Murray, Ky. - 1968-69

Two years of soil and plant sampling in Calloway County have now been completed. The results are presented by sample groups as they were sampled. The overall soil fertility level is quite good in this area if one considers the soil samples only. However, the lower fertility fields in an area are seldom ever sampled. These results represent the better farms in this area and therefore should not be taken as representative of the major portion of soils in this area.

SOILS 1968 & 1969

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Here are Cliffon Cliff Sr. and Jr. who farm together near Frendonia, Ky., in Caldwell Co. They are big grain growers and Hutson fertilizer customers.

Spring Pasture Profit Tips

Livestock prices have generally been good for the past year and the outlook for the spring and summer look as though the trend will continue. With these higher prices, you can afford to give your pastures more attention as profit usually reflects the type of attention given to a farm enterprise.

Dairy operations need heavy fertilizer programs each year. Nitrogen must be applied every other year and 500 per cent profit. A dollar spent for fertilizer nutrients must be dissolved or cut for hay. Nitrogen must be applied every year and two applications are better than one.

Farmers Face Tight Credit

Hutson Has Special Credit Plan Available

Money is available for this year's crop according to local lending sources. However, credit worthy farmers will probably receive the most consideration because, admittedly, local lenders have demand for more money than they've got to lend.

An interview with local farm credit sources reveals a similar credit condition throughout western Kentucky. They all feel that farmers will not have trouble getting the funds needed for production expenses for this year's crop. It is important to the area economy to have these crops go in and bankers are going to do whatever they can to see that the money is available. However, when it comes to capital investments, farmers are going to find the going a little rougher. Most lenders feel that money for capital expenditures will be extremely tight.

In view of the situation, Hutson Chemical Co. will make extra efforts to help farmers with their credit problems. Along with working through local lending sources, the company will have a certain amount of credit available through the company. Dan Hutson, the company president, points out that Hutson officials are tuned up to the credit needs of their customers and will do whatever possible to help their customers obtain space financing for a good fertilization program.

Soil Acidity Reduces Fertilizer Efficiency

One of the largest and most common factors reducing fertilizer efficiency and plant growth is soil acidity.

Donald B. Howard, Agronomist of the Tennessee Agricultural Experiment Station explains the acidity problem this way: "Fertilizer nutrients must be dissolved by soil water before being absorbed by the plant. Once absorbed the solution is recombined by dissolving more nutrients in a continuous process. However, the ability of the soil to perform this supplying process is largely controlled by soil acidity. "Undesirable elements in the soil produced by acidity react with plant nutrients forming compounds that do not remain dissolved in the soil water thus preventing their absorption which affects the plant's growth."

Soil acidity is produced continuously by such processes as plant growth, application of fertilizers, rainfall, etc. There is no way to stop this production, however, a good timing program will help prevent the development of unfavorable conditions which have an adverse effect on plant growth.

Use Super Q

DAN HUTSON, President, Hutson Chemical Co.

Bill Hendon operates a dairy farm on Route 5, Murray, Ky., who farm together near Frendonia, Ky. in Caldwell Co. They are big grain growers and Hutson fertilizer customers.

H. GLENN DORAN, President, and HARVEY ELLIS, vice president, Peoples Bank of Murray

JOE DICK, President, Bank of Murray

JOE DICK, President, Bank of Murray

KEYS KEEL, Manager, Production Credit Association Calloway and Marshall Counties.
Hutson Participates in Adult Education Classes

At New Concord

Dr. Howard Small (right) discusses an agronomic problem after the adult class at New Concord, Ky. Dr. Small led the discussion for Hutson Chemical Co. who is helping provide speakers for these farm classes in the area.

At Kirksey

Hutson Chemical Co. sponsored an Attendance Dinner for farmers and their wives. These farmers were honored for their attendance at the Kirksey Adult Farmer Class. The dinner was held at Sue and Charley's Restaurant on Kentucky Lake.

At Clinton

A large farmer meeting, held in Clinton, Ky., was sponsored by Farmers Gin Co. in Clinton. Dr. Howard Small, Super Q agronomist, was the principal speaker. The farmers were invited to the meeting and barbeque at the American Legion building in Clinton.

At Symsonia

An adult farmer class, taught by Walter Mathis and Billy Watkins, Vo-Ag instructors at Symsonia, Ky., was held Feb. 10th. Super Q agronomist, Howard Small, was there to talk about corn, soybean and tobacco production.

At Hazel

Here is the adult farmer class at Hazel, Ky., which is taught by Carmen Parks. Howard Small, Super Q agronomist, was speaker at this meeting.

At Calloway High School

This is the young adult farmer class in Calloway Co. meeting at the high school.

At Lynn Grove

This farmer meeting was held at Lynn Grove, Ky., and is part of the adult education series of classes being held in that area. W. H. Brooks is the instructor.

At Princeton

This is the Adult Farm Class meeting at Princeton, Ky. Farmers attended from Trigg, Caldwell and Lyon Counties. Mr. Deboy and Mr. Holloway are the instructors. At this session Dr. Howard Small, Super Q agronomist, discussed soybeans, corn and tobacco.

Many of these class members and farm operators are customers of Hutson Chemical Co. at Murray, Ky.
Hutson On The Move!!

Dan Hutson
President

Billy Smith
Vice President

Ted Hopkins
Agronomist

Edmond Collie
Plant Manager

Rome Kirk

Charles Houston

W. R. Sneed

Dale Houston

Henry Greer

Harold Brown

Frank Kirk

Mr. and Mrs. William Payne of Lynn Grove, Ky., dropped in at the Hutson Chemical Co. office in Murray one day to talk fertilizer. They used Super Q on their tobacco.

Keeping up with changes in agriculture - and particularly soil fertility - is part of the Hutson Super Q program for better service to customers. In the above photo Ted Hopkins and Billy Smith of Hutson Chemical Co. are shown at the national agronomy seminar in Skokie, Ill., with one of the principal discussion leaders, shown left to right are Hopkins, Smith, Dr. Howard Small, Super Q agronomist; and Dr. L. B. Jones of the University of Georgia. At this seminar they learned about plant analysis. In the lower photo, Billy Smith is shown center, with Dr. Henry Andrews (left) of Weedrol, Inc. (formerly University of Tennessee) and Dr. Howard Small (right), Super Q agronomist. This picture was snapped at the Super Q cotton and soybean symposium in Memphis.
**Super Q for Corn Proven in Field Trials**

**DAN HUTSON, President**

In 1969 we introduced a new starter fertilizer for corn, in our market area. We were only interested in getting enough of our market area. We were only starter fertilizer for corn in._could evaluate it under real field conditions. Well, it more than this new formula out so that we met our goals of being an outstanding corn fertilizer and many of our farmers agreed.

Designed to be used as a starter fertilizer requires that all the potash and part of the phosphate can be broadcast and plowed down for maximum yields. Corn planted with Super Q in

the spring of 1969 literally blew out of the ground and never slowed up. This corn was greener, and never lacked for any form of fertilizer nutrients. If you want your corn to do the same this spring, plowdown your phosphates and part of the phosphate. Nitrogen can be broadcast, preplant or side-dressed. Plowdown rates can be determined by soil test but use Super Q corn starter 8-30-16 to provide your corn what it needs. Try Super Q 8-30-16 corn starter in 1970.

Here are some other tips for good corn production. Shoot for 125 lbs./Acre.

1. Plan land early and prepare to plant on time.
2. Begin planting as soon as you can. (early April if possible)
3. Check population at planting. On good land shoot for 20,000 plants per acre.
4. Early maturing varieties like XL45A can be planted at populations between 25,000 and 30,000 if soils are deep and adequate fertility is provided.
5. Plant several varieties - early, medium and late season corn.
6. Control weeds early.
7. Side-dress nitrogen early before corn is 12" high (8 lbs. 1000 stalks is adequate)
8. Harvest when corn reaches 28 per cent moisture.

Here is Otis Falwell. A customer of Hutson Chemical Co. on Rte. 5 of Murray, Ky.

**DAN HUTSON, President**

Last summer in Skokie, Ill. Ada Sue won in competition with girls throughout the Super Q organization of independent fertilizer manufacturers in the United States and Canada. She is shown here with her father arriving at the Hyatt House in Lincolnwood, Ill., where she resided during the two-day convention. Dan Hutson is president of Hutson Chemical Co., at Murray, Ky.

Ada Sue Hutson, daughter of Mr. and Mrs. Dan Hutson, was chosen National Miss Super Q and was honored at the annual convention last summer in Skokie, Ill. Ada Sue was in competition with girls throughout the Super Q organization of independent fertilizer manufacturers in the United States and Canada. She is shown here with her father arriving at the Hyatt House in Lincolnwood, Ill., where she resided during the two-day convention. Dan Hutson is president of Hutson Chemical Co., at Murray, Ky.

Here is William D. Rising, Clinton, Ky., who farms 1,500 acres of land. He raises hogs and cattle and grows corn, wheat and soybeans. In 1969 400 acres of soybeans averaged 37 bu. per acre. He used Super Q bean special fertilizer at 200 lbs. in the row.
Burley Allotments Cut 10%

Secretary Hardin announced a 10 per cent cut in burley acreage for 1970. Although this cut does not affect those allotments already at 0.5 acre, it will affect some growers. That extra 10 per cent loss may force some growers to rent or lease other acreage to gain extra volume. Another way to do the same thing is to use a good tobacco-rotation plan.

1. Select tobacco field early - rotate your field
(2) Collect a soil sample.
(3) Lime to pH 6.0
(4) On low pH & soil testing places, inoculate part of the fertilizer in the fall.
(5) Broadcast a minimum of 1,000 lbs/acre of 12-18-18 and phosphate, a ton/acre would even be better.
(6) Apply extra nitrogen to bring total nitrogen to 200 lbs./acre or more.
(7) Side-dress with extra nitrate and potash if heavy rains occur early.

200-20. (9) Select only healthy plants - obtain a good stand.
(10) Control weeds - if you use DDT don't incorporate too deep. Don't set plant roots in the treated soil. Enide can be used after plants are set.
(11) Control suckers for maximum poussage per acre.

This expansion moves by Hutson Chemical Co. of Murray, Ky., to improve customer service is shown here. Above is a new fertilizer warehouse being erected near the main plant at Murray. This new facility will increase the company's storage capacity and will make possible more formulas and more fertilizer on hand. The photo on the right shows the new anhydrous tank at the Murray plant. This tank will store 30,000 gals. of anhydrous ammonia.

Expansion at Hutson

Hutson Fertilizer
for Lawn and Garden

How to Make 50 bu. Soybeans

Soybeans respond to good management as do all other crops. Unfortunately the soybean does not often get the chance to prove that it can be a profitable farm crop. Here are a few simple tips that can help you change losses into profit. Remember we need nearly 20 bu./acre just to break even.

1. Lime to bring soil pH to 6.0.
2. Broadcast 400 lbs. 4-16-30 or 200 lbs./acre, 300 lbs./acre.
3. Select a good variety - Clark very early; Hood - medium; Tarrant and York - medium late. Plant late maturing varieties after wheat.
4. Plant in May.
5. Incorporate all seed with soybean inoculum.
6. If local 6-10 beans per foot - never plant more than one bu. except when drilling.
7. Control weeds - use herbi-cides if needed. Use care when applying Loxone to light soils.
8. Watch for insect damage - pods especially. Use Sevin to control them.
9. Harvest at 13 percent moisture.

Take soybean plant samples when soybeans begin to flower and set pods.

This is James W. Davis of Rhea County, a corn, wheat, and barley farmer. He works out his fertility programs with Farmers Gin Co. at Clinton which is affiliated with Hutson Chemical Co. He has all Sebile soil tested in late winter and fertilizes according to recommended needs. For the past five years he has had an average of more than 100 bu. of corn to the acre and a five-year average of over 30 bu. of soybeans.

This is Carmen Parks, who is the Yo-yo teacher at Calloway Co. high school. He also farms and used Super Q on his corn with good results.

Pesticide-Fertilizer Mixture Not to Be Used on Tobacco

Regulatory Services at the University of Kentucky will not register for the pesticide-mixture tolerances in 1970. Nicotine has already been given to all fertilizer dealers in Kentucky. The University of Kentucky Environornental Department will not recommend the use of the compound, "chlorinated hydrocarbons," this year.

This is to include:
ALL CLORODANE, DIELDRIN AND HEPACHLOR. SUCH COMPOUNDS HAVE BEEN GIVEN TO ALL FERTILIZER DEALERS IN KENTUCKY, AND CANNOT BE MIXED IN THIS PLANT.

The United States Department of Agriculture has banned the use of DDT on all tobacco grown in 1970.

Tobacco industry leaders have also been concerned with pesticide levels because of their threats to the acceptance of some expert help. West Germany already has plans to reduce its level of acceptance to one-tenth part DDT per million in 1973. Other large importers of American leaf are indicating they will reduce tolerance levels in the future.

Evidence is that use of DDT and pesticide-fertilizer mixtures are hurting the industry. Tobacco is grown by 126,000 farm families in Kentucky, and it accounts for about 40 percent of the state's agricultural income.

Why would anyone threaten this industry? Although it is probably unintentional, they do this by using pesticides which may reduce or hurt production and may be suspected as foreign imports. What can the average farmer do? He can NOT use these insecticides and he can ask his colleagues growers NOT to use these pesticides and to observe DDT limits if even one individual uses them. He can also help by asking his fertilizer dealer not to manufacture these mixtures.

"If you and I should make every effort to see that we produce the very best leaf possible for the industry to use," says Billy Smith, Hutson Vice President, "we can get high yields of useful tobacco without these insecticides and not sacrifice any income." High levels of chemical residues are present on burley tobacco at marketing time. This should be reduced. If the chlorinated hydrocarbons are removed from the tobacco, soils, and plants, undoubtedly the residue on the leaf will be reduced.
Sulphur Deficiency—A Coming Problem

Why is sulphur suddenly becoming a soil problem? Sulphur deficiencies are showing up in many areas and other areas are approaching the condition that is commonly labeled "hidden hunger." Plant analysis results verify the general low sulphur content of our soils. Low leaf levels are occurring even where the yearly application of sulphur approaches 30-50 lbs. per acre.

How do we explain the low leaf levels when apparently sufficient sulphur is supplied? Sulphur exists in the soil in a form which, like nitrate, leaches with rain. When the soil is already low in sulphur, rainfall leaches the element out of the root zone soil, thus, plant roots must compete with soil microbes for the remaining sulphur. This condition leaves an overall shortage of sulphur.

The leaf tissue of most plants requires one part of sulphur to 15 parts nitrogen leaving a 15:1 ratio of these two elements. Recent increases in nitrogen applications have taken the sulphur-supplying power of the soils. Nitrogen rates are probably double those of five years ago. Yet sulphur applications have been holding their own in the South despite the fact that normal superphosphate and Sul-Po-Mag are used in nearly all fertilizers. Where sulphur bearing materials have been replaced with concentrated forms, sulphur shortages in the soil can be attributed to the use of high-analysis fertilizers.

SULPHUR SOURCES
Soil supplies sulphur from the organic matter. Fertilizers supply it from the sulphur in superphosphate (12%) and Sul-Po-Mag (22.7%).

For the growing plant to get sulphur from the soil, it is necessary for the soil to have a correct balance of nitrogen and sulphur in the soil organic matter.

Where soil organic content is low, as it is in the Southeast and South, the sulphur-supplying power of the soil is primarily dependent upon the sulphur applied in fertilizers.

Sulphur can also come from rainfall, but, in areas where the air isn't polluted with sulphur-bearing materials, much of the natural return of sulphur to the soil is eliminated.

How MUCH SULPHUR is needed? How much sulphur is needed? For example, research shows that the growing plant needs one lb. of sulphur for every 10 lbs. of nitrogen it takes from the soil. Organic matter has a 10:1 ratio, so Southern soils, which are low in organic matter, and where much of the soil is already low in sulphur, rainfall leaches the element out of the root zone soil, thus, plant roots must compete with soil microbes for the remaining sulphur. This condition leaves an overall shortage of sulphur.

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THOROUGH MIXING OF LIME WITH SOIL ADVISED

The methods of incorporating ground limestone with the soil studied by the Arkansas Agricultural Experiment Station showed that thorough mixing with the soil when the seedbed was prepared was more effective. Applied in this way a four-ton-per-acre application raised the pH from 5.0 to 6.4 the first year and this increase was maintained the second year. Applied at the same rate on the same soil studied in, it took 2 years for the pH level to reach 6.5.

Fertilizers Can Make Soils Acid

As a result of acid conditions in soils, many adverse factors can be put in motion that may limit or reduce the yield potential of your crop. Do you know how much sulphur is needed? Sulphur is needed for your crops and soils.

3 Super Q Fertilizers for 1970

This soybean plant, grown with Hutson fertilizer, had 305 pods. This picture of this sensational plant was taken on Sept. 15 last year.

Dan Hutson and Billy Smith proudly display their Super Q bags for their Super Q fertilizers. Attractively designed in the familiar Hutson red, the bags hold fertilizers which go along with them, are tailored-made for the soils of western Kentucky and for the specific needs of the crops. The fertilizer needed is included, what isn't, is left out, it's a rifle-shooting combination of nutrients—no all-inclusive formulation. See your Hutson Answerman today about Super Q fertilizers for your crops and soils.