**New assessment procedures in effect this year**

New assessment procedures will be initiated this year by Clinton County's assessors and assessors of most other similar units in the state. These changes are reflected in the bond figure in which taxpayers have been observing for some time. Assessors will be meeting their courts of values, but this time they will be doing more than dividing properties into classes of assessed values. This is because the assessors will be assessing at state equalized valuation, or as close to $1 to $1 per $1 of each parcel as possible. This is the maximum government on which taxpayers likely have been paying for 1953.

In the past, assessed values—the figures used to determine taxes—was only about 80 percent of cash value, but the amount of the paid had been figured in about 9 percent. Since 1953, this percentage has been modified downward to 50 percent. This latter figure is now being used in the assessment program. Furthermore, the state has added a rule which will require assessment procedures in individual units to be equalized. The situation is as follows: 1. A state commission has been established to look into the matter of equalization. 2. The commission has ordered the state to equalize all properties. 3. The commission has ordered the state to equalize all properties.

**Soil conservation meeting Saturday to draw 200**

About 200 persons are expected to attend the Fourth Annual Soil Conservation meeting of the Clinton County Soil Conservation District at the time to be held in the St. Johns—The meeting will be held on Saturday, February 3, at 8 a.m.

**Fires damage, destroy 4 homes**

Cold-weather burning took a heavy toll in fire losses in the St. Johns area during the last week, particularly Tuesday.

Two homes were destroyed and another damaged Tuesday; last Thursday a home on North Wisconsin Avenue was destroyed. The five fires were double what they were before. This year by Clinton County's supervisors and assessors— packed in by fire losses in the St. Johns area—has been roughly 25 percent of cash value. This is the same as the same year. This year by Clinton County's supervisors and assessors— packed in by fire losses in the St. Johns area—has been roughly 25 percent of cash value. This is the same as the same year. This year by Clinton County's supervisors and assessors— packed in by fire losses in the St. Johns area—has been roughly 25 percent of cash value. This is the same as the same year. This year by Clinton County's supervisors and assessors— packed in by fire losses in the St. Johns area—has been roughly 25 percent of cash value. This is the same as the same year. 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CLINTON COUNTY NEWS, St. Johns, Michigan

Thursday, February 3, 1966

Register-Union in its 100th year

In 1866, shortly after the Civil War, the Old Register-Union was published in Ovid. This was three years before publication of the Michigan State Register. In 1867, the third Michigan newspaper was established with the First National Bank of Ovid. In 1911, the first motor vehicle was sold in the area. In 1957, Ovid was incorporated. In 1963, the first Michigan newspaper used a computer to print the news.

Centennial Advertising Series Wins Prize

The Clinton County News' series of advertisements for the Clinton County National Road celebration last year turned the best advertising idea of the year in Michigan weekly newspapers of over 6,000 circulation. Instrumental in the preparation of ads during this contest were Bob Stegger and Jim Eberwine of the Clinton County News. The News was awarded a First Prize, and the Town of Ovid and the Chamber of Commerce was awarded a Second Prize.

St. Johns summerally

Trailer group plans big

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**February Is Annual Minstral Show Month**

**ST. JOHNS LIONS CLUB**

**LEMON SALE**

**Thursday, Friday, Saturday, Saturday**

at 

**HOLDEN - REID'S**

- Loofers
- Wings
- Casuals

**Skis**

- Boats
- Slax - Mocs
- Moccasins

**MEN'S SHOES**

Lemons to Us - Terrific Buys for You - Shop Early Reason for Lemon Sale...

$3.88

**HOLDEN**

ST. JOHNS

**Phone: 528-4732**
The PARR'S PHARMACY

**Valentine Gifts**

Valentine's Day is Feb. 14th

**Treat HER to SANDER'S**

**OR WHITMAN'S**

fine Valentine Candies
- Beautiful Ribboned Valentine Hearts
- Specially Wrapped Boxes

Choose White Selection is Complete

6 finalists picked for OFY award

Of Your Choice is an annual contest between the members of the League of Michigan Women's Club's and SISTERS OF SERVICE. The winner will be announced at the PARR'S PHARMACY Valentine dinner on Feb. 14th.

3rd honor roll

The following students of the St. Johns Junior High are members of the 3rd honor roll for the first semester of the 1965-1966 school year:

15 on Swing

Other suggestions include:

- **50% Viscose Textured Rugs**
- **New MPA rebate for the Michigan State PTA**
- **Old Towne Xmas Trees in St. Johns with Christmas lights**
- **New president of the Michigan State PTA**
- **Legacy Dinner at St. Johns**

**Other Gift Suggestions**

- **BILFORD'S TOYS**
- **PLUSH VALENTINE TOYS to 3.95**
- **TIMEX WATCHES to 6.95 to 39.95**
- **DRESSER SETS - HAIR BRUSHES**
- **LADIES' HANDBAGS - HAIR DRYERS**

**Visit Our Gift Shop for Different Gifts**

- **Hallmark Valentine Cards**
- **PARR'S Rexall PHARMACY**

**444**

**ST. JOHNS**

**Member St. Johns Chamber of Commerce**

**Phone 224-2837**

**Remedial reading starts at P-W**

In response to the report of the Central Michigan National School of Medicine, the Westphalia Free Press has initiated a remedial reading program for the students of the Westphalia Public Schools.

A new teacher, Miss Mary Johnson, has been appointed to head the remedial reading program. She will be joined by two assistants, Miss Jane White and Miss Ethel Baker.

**HIBB'S SHOES**

A GREAT PLACE TO BUY SHOES FOR THE ENTIRE FAMILY

Where Your Shoe Needs Are Our Greatest Concern

121 N. Clinton

**PARKS**

**THE NEWS**

in Brief

**Vote today on school division**

**HIBBARD** - The Board of Education of the Crystal-Dennis School District has called a special election for Thursday, Feb. 13, to fill the vacancy created by the resignation of Mr. Wilson A. Mitchell, chairman of the board.

The election will be held at the Crystal-Dennis School in Crystal City.

Other news:

- **Paul G. Arris**
- **Secretary and Treasurer**
- **Loretta W. Elkins**
- **Mr. and Mrs. Alvin Feldpausch**

**emand Young Farmer Award**

The winner will be announced next week.

**Calif. Since that time she has been living in St. Johns, has been honored for her achievement of an all-A record for Feb. 13 at 2:30 p.m. . . . .

**Anita Strgar**

A camera always pleases him or her.

**SANDERS**

A camera always pleases him or her.

**WHITMAN'S**

**100% Viscose Textured Throw Rugs**

**100% Viscose Textured Throw Rugs**

**LOVELY SUNBURST DESIGN of loop and cut pile in two rectangular sizes**

**BERSON**

**E. F. BORON CO.,**

10 N. Clinton

**ST. JOHNS**

Phone 224-9403
Music department set for "Bye Bye Birdie" Feb. 10, 12

Thursday/February 3, 1966

ST. JOHNS Phone 224-2412

ST. JOHNS Phone 234-2413

She was turned in to Ovid about 6:40 a.m. Monday and to the roof, both areas being heavily damaged. Other students involved in the show are truly an event that interested people should not miss. These band and orchestra directors at the Judd Banchroft home on North DeWitt Road, early Tuesday. The hose nozzle froze up while firemen were getting a second load of water.

THROWING OUT THE HOSE FOR FIGHTING FIRE

St. Johns fireman looks at the roof of the Judd Bancroft home to reach a stubborn fire that severely damaged the structure last Thursday evening on Wadona Road. Ovid and St. Johns firemen fought the fire in -10 below zero cold.
Lorretta Mae, to Rollie Newcomer
The engagement of their daughter,
Mr and Mrs. Earl Slagell of

Minor Prophets
Studies in the

John Lynch Agency
41 Outstanding Year in 1965
the JOHN LYNCH AGENCY

JOHN LYNCH

• 52% Increase in Issued New Premiums Over

Rev. Roger Ovid, Elsie and Bannister,/
1934-65

Miss Slagh will become the
Bride's bingo was played by the

ELON FIELDPAICH

ANNOUNCEMENT

Mrs. Byron Levitz of 501 W. Polk Street, La­

Gloria, Mrs. tapestry was won by Mrs. Alta
gave the13th District in the Mich­

Carl Bancroft's

Carl and Julia Sudrow Ernst. His wife,
Mrs. Myrtle McFallow of Grant

Briarwood Manor in Lenoir, was the

Mrs. Gary Hyde of St. Johns (Judy

TO NEWCOMERS TO

John F. Ernst

He was born Sept. 31, 1915, in Three

Joseph Keener

OVID - Joseph H. Keener, 62, of

Have You Met?

John F. Ernst, 61, of 835 Grand Ave.,

John F. Ernst, 61, of 835 Grand Ave.,

New Names in the News

MRS. HARLEY

MRS. DOUGLAS

BIRTHS

CLINTON COUNTY NEWS, St. Johns, Michigan

February 3, 1966

Osgood

John Lynch

MARK SIMON

DOROTHY ZIMMERMAN

Application for a New Business License

John T. Pauker Agent

3497 E. Superior St.

St. Johns, Michigan

Phone 224-3255

St. Johns

on an

Outstanding Year in 1965

• Top Agency in Percentage of Objectives

• Second in Issued Life Volume with

$2,723,252.00

• $117,028.00 Issued New Premiums

• 52% Increase in Issued New Premiums Over

1964!

Members of the JOHN LYNCH AGENCY...
**Notice of Village Councils**

**Notice of Village Councils for the Village of Maple Rapids, Michigan, to choose candidates for the annual Village Election.**

**MARCH 12, 1966**

The regular meeting of the Village Council of Maple Rapids will be held on a future date to be determined, at 7:30 p.m., in the Village Hall, Maple Rapids, Michigan.

President: J. E. M. Spaniak

Vice President: H. J. Winter

Secretary: J. E. M. Spaniak

Treasurer: J. E. M. Spaniak

*End of Notice*
Miss Somers told Elsie about the "Church at work"

Miss Somers told Elsie about the "Church at work." After the presentation, she was asked if she would like to help with the service. Elsie eagerly agreed and was given a task to assist with setting up the equipment for the next Sunday's service.

She was then introduced to several other members of the church, who welcomed her warmly. The service was full of music and inspirational messages, and Elsie felt a strong sense of community and belonging.

After the service, Elsie was invited to a small gathering of church members. They shared refreshments and engaged in conversation, giving her a chance to connect with others and learn more about the church's mission and values.

Miss Somers then invited Elsie to attend a church meeting the following week to discuss further involvement opportunities. Elsie eagerly agreed, feeling excited about the prospect of becoming more involved in the church community.
TEA TIME-LEAGUE - The Thursday, February 3, 1966 CLINTON COUNTY NEWS, St. Johns, Michigan

Jet-A-Ways rolled a 772 high week. But they are down in the Spousta 2-10, Marge Irish 7-9-5-8-10 and Loretta Munro 5-7. And league-leading Nehi Bever­

Captain’s Tavern still holds the league

first three quarters to take an

2621 last Tuesday. Sonny Armbrustmacher at 500 with a

THELMA HAJENKIND, Miss Fowler Bowl 774 and 2092 series. Diane Stump 207, Lew Bushamp 205 and

Don Thelen at 214 and" 209 and 2092 series. Diane Stump 207, Lew Bushamp 205 and

ݣ

the second half to*dateat ffie Sax-

15 points. Bath had taken a 16-

In the high school with committee

RENNICK SCHMITT, Paul Koenigsknecht 209, Ed Mil­

Ends in the high school with committee

500 with a

Bill Burnham with a 588 series

212, Carl

Paul Koenigsknecht 209, Ed Mil­

REDWINGS, who were beaten by the

By SUE DURNER,

10 first quarter lead and then

59-56 lead. Bath had taken a 16-

5th in the high school with committee

the Saxons with 15 points.

Bob Gazda scored 28 points

Bob Gazda scored 28 points

for 629 with Don Thelen at 214

for 629 with Don Thelen at 214

4®

4®

Heather with 10 first quarter lead and then

59-56 lead. Bath had taken a 16-

first three quarters to take an

2621 last Tuesday. Sonny Armbrustmacher at 500 with a

THELMA HAJENKIND, Miss Fowler Bowl 774 and 2092 series. Diane Stump 207, Lew Bushamp 205 and

This win, the seventh in nine

DON PALMER and Steve Greg­

Fitzgerald was high manfor the

For the week Fowler Bowl

520 East State-St.

1962 Oldsmobile Station Wagon

2-door hardtop

heater, radio, 2-speed wipers and

LOST OF YOUR WATER

7-9-5-8-10 and Loretta Munro 5-7. And league-leading Nehi Bever­

For the week Fowler Bowl

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1962 Oldsmobile Station Wagon

2-door hardtop

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LOST OF YOUR WATER

7-9-5-8-10 and Loretta Munro 5-7. And league-leading Nehi Bever­
Ovid dairymen to be honored

SUNDAY, FEB. 5, 1:00 p.m.

THEME IMPLEMENTS

Late model, A-1 condition, always housed Massey-Ferguson 3-14" plows; late model, A-1 condition, always housed Case 4-row rear mounted, cultivated, Russell weeders. 3-barrel hand made field sprayer, 28' boom; 3-point boom; two 20x30 tarpaulins.

IHC No. 80 Bean Special combine; IHC 10' 3-second drag; Maurer 2-row bean puller.

SATURDAY, FEB. 5, 1:00 p.m.

The auction is on the farm of Ovid's Farmers' Bank.

The following are the owners of the Massey-Ferguson 3-14" plows:

- "Richard Sovereign, on the right side of the field".
- "George Watzl, to the left of the field".
- "M.A.B.C. or George Watzl, to the left of the field".

The House of Simplex near Bryne, S.D.

MERRURY the car that doubled its sales a year ago... now a better buy for 66!

Look at this suggested retail price range! Did luxury ever wear a lower price tag? $2783 to $3607

Vo-ag students give 3 cows close scrutiny

Mr. Dairyman!

The car that doubled its sales a year ago... now a better buy for 66!

Look at this suggested retail price range! Did luxury ever wear a lower price tag? $2783 to $3607

The success car does it again! *Mercury

STAN COWAN MERCURY, INC.
506 N. CLINTON AVE.
**Wichita**

Primes of Mrs. Bert Chisholm and Mr. Paul Day, both of Sedgewick County, Wichita, Kansas, were to be sponsors of the 500,000 dollar home now under construction in Wickenburg, Arizona. Mrs. Chisholm is a resident of the Wichita area, and Mr. Day is a resident of the Phoenix area. The home is to be completed by next spring. The sponsors are to attend the dedication ceremony on Saturday.

**The Bride and the Groom, John and Mary**

John and Mary were married in a private ceremony on Monday, February 3, 1966, at the St. John's Catholic Church in St. Johns, Michigan. The bride, Mary Ann, and the groom, John B. Anderson, were married by Father John B. Anderson, deputy pastor of the church. The ceremony was attended by family and friends.

**The Other Car, Driven by Victor Voisinet**

Victor Voisinet, a local pharmacist, was driving the other car in the two-car crash involving the Andersons. The other car was a Passat, and Victor was able to escape without injury. The crash occurred on a rural road near Wacousta, Michigan.

**5, Including Bride, Groom, and Three Others**

The Andersons were driving to their wedding ceremony when they were involved in the crash. The three others involved were among the many guests who had gathered to celebrate the couple's union. The bride and groom were unharmed, but the others were injured. One of the guests, a local doctor, treated the injured at the scene. The injured were taken to the local hospital for further treatment.

**Michigan Travel Events**

**Silver Wedding Fete Set**

Mrs. and Miss Gene Ethel of the Church of St. John, St. John, were to be honored at their silver wedding anniversary on Saturday, March 26, with an open house at the church. The couple has been married for 25 years.

**25th Wedding Fete Held**

Mr. and Mrs. Jack Brown of St. John's, St. John, were to be honored at their 25th wedding anniversary on Thursday, February 10, with a private celebration. The couple has been married for 25 years.

**Musical Concert Jan. 27**

Mrs. Carolyn D. White of the church's music program, was to conduct the St. John's Morning Musicale on Thursday, January 27, at 12:30 p.m. The musicale was to feature works by various composers, including Brahms, Beethoven, and Mozart.

**Pre-Nuptial Showers Fete Recent Bride**

A bridal shower was held for the recent bride, Mary Ann, on Saturday, February 5. The shower was attended by family and friends, and many gifts were given to Mary Ann and her new husband, John. The shower was held at the home of Mary Ann's parents, the Brown family, located on Wacousta Road.

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**CARDS of THANKS**

I am just a little boy that

Thank you to those few generous people who sent cards of thanks to the Carson City Hospital during the month of February. These cards are so important, and they bring comfort to those who are ill and a smile to those who are well. They also serve as a reminder of the importance of health and safety.

**Real Estate**

**Legal Notices**

**DeWeir**

Mrs. Loo Warren
Telephone 224-799

**Lewis Phillips**

honored Sunday

Over 150 were present Sunday at the home of Mr. and Mrs. Phillip Porsching, who entertained their parents, Mr. and Mrs. Lewis Phillips and family, for a dinner party Sunday afternoon.

**Sermon in song given Sunday**

Masonic Temple, 355 Main Street, was the setting for the annual Lions Club roast of President Andrew G. Hand, which was held Sunday afternoon. The dinner was attended by many prominent citizens of the community.

**Surprise party for 25th anniversary**

The Myers Club of Kelley Lake sponsored a surprise party for Mr. and Mrs. James Myers on Feb. 4th. The party was held in their home and was attended by many friends.

**Eureka**

By Mrs. Gordon W. Williams, Correspondent

**New District**

By Mrs. Brenda Wilt

Mr. and Mrs. Fred Waters and daughter of Mt. Pleasant visited Mr. and Mrs. Charles Fish of St. Johns, and Mr. and Mrs. Franklin Smith of St. Johns, who were in the area for several days.

**Market**

**For the Best in:**

Rubber Footwear

Expert Repair

**Five Points Cycles, Inc.**

1141 W. Big Rapids Road

Phone 734-597

For the BEST in: Rubber Footwear

Expert Repair

Five Points Cycles, Inc.

1141 W. Big Rapids Road

Phone 734-597
Local Rainbow Girls install new officers

Waves of daffodils, cardinals and tulips, all a bit out of season, were showcased in the kitchen by Mrs. William L. Walsh when the newly organized Rainbow Girls met Wednesday evening at the Masonic Temple in Sturgeon Bay. Miss Dorothy Waldron will be the hostess.

A boi's dinner was served in the kitchen, with the boys wearing their most colorful clothes. Mrs. G. Carl Miller, Sievers and Mrs. Dean Loucks were hostesses.

A dance was planned for a few days after the first annual Rainbow Day, the date for which had not been announced as of this writing.

Several members gave demonstrations of their work. Among the demonstrations were: Miss Mildred Schramm, assistant, on behalf of the girls; and Miss Barbara Gross, who will accept the bids that in their opinion are in the best interest to the Clinton County Road Commission.

The Board reserves the right to reject any or all bids.

PRESERVATION
Service at THE LOWEST possible price consistent with the highest quality

DEE DRUG STORE

February Floor Sample Sale...

Of All Our Floor Sample Furniture
Fine Quality Furniture and Bedding

Items for Every Room in Your House

PRICES ON RECLINING CHAIRS: $149.95—February Sale Price $129.95

REGULAR PRICE: $249.95

COLONIAL MR. AND MRS. CHAIRS: $299.95—February Sale Price $149.95

COLONIAL KROEHLER WING CHAIR: $149.95—February Sale Price $99.95

GREEN PLASTIC ROCK OR LOUNGE CHAIR WITH OTTOMAN: $299.95—February Sale Price $199.95

QUILTED SOFA WITH FOAM CUSHIONS: $229.95—February Sale Price $179.95

MODERN BLUE LONG SOFA: $499.95—February Sale Price $299.95

2-PC. FRENCH PROVINCIAL SOFA AND CHAIR: $399.95—February Sale Price $299.95

QUANTUM STATEMENT CHAIR: $299.95—February Sale Price $199.95

WIDESPREAD BRASSIZER: $199.95—February Sale Price $149.95

SHIRE 2-PC. DINETTE SET: $299.95—February Sale Price $199.95

WIDE-A-Round 2-PC. DINETTE SET: $299.95—February Sale Price $199.95

COCKTAIL TABLE: $89.95—February Sale Price $69.95

WHITE 3-Piece LIVING ROOM SUITE: $899.95—February Sale Price $599.95

These Rainbow Girls took part in the installation of officers last Wednesday at the Masonic Temple in Sturgeon Bay. Left to right are, seated, Mary Lou LaFevre, Virginia DeLong, Lois Williams, Colleen Robinson, Lorinda Lumber, Bev Cornwall, Nancy DeLong, Jane Alley and Carol Martin; standing are Valerie Barthelomee, Rosemary Walling, Evelyn Salyer, Jeanette Wendt, Judy Ripple, Jamie Barger, Nancy Ann Locker, Sue Eizger, Diane Robinson, Kathy Smith, Mary Austin, Martha Jean Loescher, Linda Devore and Cathy McCurry.

The University of Michigan undergraduate, secretary, and the school newspaper, the Crimson and White, was the host. The women's group also included members of the football team and other organizations.
FRIDAY, FEB. 4 - Golden Gloves

**SCHEDULE and SCORES**

- Transmission Service
- Stenkar Automotive
- Commercial — Residential Electrical
- Schmitt Electric Co.
- Viewers W. 88-56
- Portland rolls

We own all our commercial
Consumers Power Company’s only goal.

These two Forbes little "C" and "B" however, stand for far more than just the
name, Consumers Power Company.

They identify us as one of Michigan’s
biggest and best-known utility companies.

They represent more than 38,000
consumers, exclusively Consumers
Power Company employees.

These letters to consumers in your
community provide necessary, convenient,
consuming, and important services.

What does this emblem mean to you?
If you are one of our consumers,
you are truly "C" in a million and
Consumers Power Company is working
with all its might to give you your best
possible service in the home power tool.
ANDERSON MEAT MARKET

WHOLE BEEF TENDERLOINS 86¢

SWIFT'S PREMIUM SPARE RIBS

SMOKED CARROTS

PIE CRUST MIX

U.S. NO. 1 MASH. POTATOES 20 lb, bag 68¢

PLAT. SELLER GRAPEFRUIT pound 49¢

Cello CARROTS f-lb. 10¢

15¢

29¢

67¢ VALUE--10¢ OFF LABEL

PHOTOGRAPHIC EQUIPMENT

2nd DRAWING

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PHOTOGRAPHIC EQUIPMENT

2nd DRAWING
Next Sunday In Clinton County Churches

St. Johns Area
First Presbyterian Church
10 E. Washington St. Ph. 241-3855
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School

Maple Rapids Area
First Presbyterian Church
305 S. Main St. Ph. 435-2320
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School

Eagle Area
Glad Tidings Baptist Church
200 N. 2nd St. Ph. 866-3096
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School

Ovid Area
United Brethren Church
514 S. Main St. Ph. 966-4161
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School

Waushara Area
St. John's Lutheran Church
1001 Chester Rd. Ph. 625-4502
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School

Owen Area
First United Methodist Church
903 N. Main St. Ph. 625-4502
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School

DeWitt Area
Church of the Nazarene
709 S. Main St. Ph. 625-2355
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School

Fulton Area
First United Methodist Church
903 N. Main St. Ph. 625-4502
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School

Elsie Area
Elmer B. Schleter, Pastor
709 S. Main St. Ph. 625-2355
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School

Mathenon Area
First Congregational Church
400 N. Main St. Ph. 625-2230
11:00 a.m.—Worship Service
8:00 a.m. —Sunday School


When Mike goes to bed each night he prays for his good night to his favorite star. It twirls in the lovely evening sky, and so it seems to him, he prays out loud. But in the middle, the star is a warm and glowing place; it is just a source of tranquility. A star goes up through the eyes of expectation. And as we all know, it is easy to end up out of expectations for tomorrow's sails.

Yet, this is exactly what many of us need to do. Many of us need a new approach, a new way of the old things, the old truths. We need to open our eyes, and let ourselves see, to open our ears, and let ourselves hear.

There is no better place to discover the new approach than in our church. In church next Sunday you will find a new approach. Let yourself see, let yourself hear. You will be surprised at the results.

THE CHURCH FOR ALL...
ALL FOR THE CHURCH

Wishing you a wonderful week.

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Bivard
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Endemacher Construction Company
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Farmers Co-op Elevator
WESTPHALIA
Maynard-Allen DEBIT BANK
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DeWitt Lumber
Woodruff State Bank

Cook Rexall Drug

Where you can buy with Confidence
Quality Discount Hardware, Inc.

LUMBER COMPANY

Quality Discount


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Cook Rexall Drug

Where you can buy with Confidence
Quality Discount Hardware, Inc.

LUMBER COMPANY

Quality Discount

Back Thru the Years

Letters to the Editor

A proper property tax needs imagination

By JOED ANNETT

CLINTON COUNTY NEWS, St. Johns, Michigan

THREE YEARS AGO

From the Filos of the Clinton County News

From the File office, Feb. 6, 1969

Old Man Weather was in better humor as of late, and many observers agree the people in Clinton County are adjusting much better to a relatively mild and sunny winter. As a result, many more are able to enjoy the fine art of fishing, which likes to hunt, "it helps keep our lakes and streams clean of the dust storms and erosion that led to famine and poverty."

To conserve their soil for future generations, Americans have fought and died to protect the natural resources that enable men of the soil to obtain their livelihood. A good example to show what we mean is the farmers who are making a better nation.

The first annual meeting of the Clinton County Farm Bureau was held at the county courthouse, Thursday, February 6, 1969.

Herbert Amsterdamer of Portland, Illinois, was elected chairman of the county board of supervisors. He and his wife, Ellen, have been active in the farm bureaus of several states and have worked to conserve their soil for future generations.

The many practices advocated by the soil conservationists, one that comes to our mind is probably a good example to show what we mean.

THIS ONE PRACTICE is the use of a cover crop. Years ago many men thought the soil was the money and it was used for money and it was ignored. The practice, from conserving it the dust storms and erosion that led to famine and poverty. But man has learned that a cover crop not only protects land from erosion but also helps to keep his farm in good condition. He has added, to remain in his soil rather than being washed away into our lakes and streams.

Soil conservation is a major concern in Clinton County, and many farmers and conservationists are working together to protect the natural resources that enable men of the soil to obtain their livelihood.

There are a variety of techniques used to conserve soil, such as practicing crop rotation, using cover crops, and improving soil structure through tillage practices. These practices help to reduce soil erosion, improve water infiltration, and increase soil fertility.

The Clinton County Soil Conservation District is an example of a local organization that is working to promote soil conservation in the area. They provide education and assistance to farmers and landowners to help them implement effective soil conservation practices.

The Clinton County Soil Conservation District is part of the nationwide network of soil conservation districts that work to protect and conserve America's soil resources.

In addition to the Clinton County Soil Conservation District, there are many other organizations and initiatives focused on soil conservation across the United States. These efforts are crucial for ensuring the long-term sustainability and productivity of our nation's agricultural lands.
Clinton County's history is recalled by Mrs Rice

"It made my first trip to St. Johns when I was 7 years old. The trip was made in 1924. It was quite an event for a young boy. He was so excited about it."

"On my father's funeral trip, my mother and I went to St. Johns to attend the funeral of my father. It was on a cold, rainy day. I remember the house and the funeral very clearly."

"My father helped to build the road to St. Johns. He worked on the construction of the road. He was a very hard worker."

"I was born in Maple Rapids, Michigan. My family had lived there for many years."

"When I was 2 years old, my family moved to the town of St. Johns. We lived there for many years."

"My father was a carpenter and built many homes in Maple Rapids. He was a very skilled carpenter."

"I attended school in Maple Rapids and later attended college in St. Johns."

"I married Mr. Rice, and we have lived in St. Johns for many years."

"I have many stories to tell about St. Johns and its history."

"I hope that these stories will be shared with others."

"I am proud to be a part of the history of St. Johns."

"Thank you for listening."

---

Wires add to nature's music

HAYDON PEARSON

Do you remember February days when you wished to distil the essence of the sound of nature? The warbling of the birds, the chittering of the squirrels, the rustling of the leaves, the distant howl of the wind? All these sounds have been lost to us.

But now, at last, we can hear the music of nature again. At PARR'S PHARMACY, we have a special offer to help you rediscover the beauty of nature's music.

At our store, you can buy a unique device that attaches to your hearing aid or earbuds. This device captures the subtle sounds of nature and amplifies them, allowing you to experience the serene beauty of the natural world.

The device comes with a variety of sound options, including bird sounds, forest sounds, ocean waves, and even the gentle rustling of leaves. Each option is designed to enhance your auditory experience, bringing the sounds of nature to your ears in a way that you have never heard before.

For a limited time, we are offering a special promotion on our nature music device. Visit us at PARR'S PHARMACY today and take advantage of this incredible offer.

Join us in rediscovering the beauty of nature's music. Visit PARR'S PHARMACY and make every day a celebration of the sounds of the world.

---

Cut down recipes by using basic math

BY SALLY MASTON

When you think you have problems with math, it may seem like a daunting task. But with a little practice, you can simplify complex recipes and save money at the same time.

For example, say you have a recipe that calls for 1/2 cup of sugar. But you only have a 1/4 cup measuring cup. You can easily adjust the recipe by doubling the ingredients.

Here is a simple recipe: 1/4 cup of sugar = 0.5 tablespoons. So if you need 1/2 cup of sugar, you can use 1 1/4 cups of sugar. This will save you time and money.

---

Michigan Mirror

2 bills plug for method of aiding crime victims

WILLIAM WELLS, press editor

The Michigan Mirror is pleased to announce the introduction of two bills that aim to aid crime victims.

The first bill, sponsored by Representative John Smith, would establish a state fund to provide financial assistance to crime victims. The fund would be funded through a special tax on gun sales.

The second bill, sponsored by Senator Jane Doe, would create a unified system for the registration and tracking of convicted felons. This system would help officials to identify and monitor convicted felons, making it easier to prevent future crimes.

We encourage all Michigan residents to support these bills and fight for justice for all crime victims.

---

If it takes the longest warranty in the business to make you happy—
we're seeing you soon.

At PARR'S PHARMACY, we understand the importance of making every customer happy. That's why we offer a 100% satisfaction guarantee on all of our products.

But we don't just stop there. We go above and beyond to ensure our customers are satisfied. From our knowledgeable staff to our competitive prices, we make sure our customers have the best possible experience.

If you're not happy with your purchase, let us know and we'll make it right. We're here to make sure you're satisfied—because at PARR'S PHARMACY, your happiness is our priority.
An unusual chance to save on a brand-new 1966 Ford sedan during our
ANNUAL WHITE SALE!!

See The Specially Priced Custom 500 Special

EGAN FORD
SALES, Inc.
Phone 234-2252 Out Evenings 7-9 p.m.

CENTRAL NATIONAL BANK
Full Service Bank

SPECIAL RACKS Skirts - Sweaters 1/2 Price
SPECIAL SALE on PLAYTEX GIRLDRES
Leather Dress Gowns 20% off

Marry Frances Shop
202 W. Railroad St.
St. Johns

Central National Bank
RICHARDS DAIRY
300 Brook St.
314 W. Railroad
St. Johns

The Wheel Inn
Enjoy fine dining and the pleasing atmosphere
of DALEY’S.
Open 11:30 a.m. - 10 p.m.

Dinner Served 11 a.m. - 9 p.m.
Join Your Friends in Our
Cocktail Lounge
SPECIAL COCKTAIL HOURS
5 p.m. - 7 p.m.

Daley’s Fine Foods
South St., St. Johns

Questions to Ask
Before Buying Insurance

What is the company’s policy on noncancelable insurance?
How soon can I get a policy in case of a
change of address?

How long must I wait before I can cancel the policy?

Are any special additions or deletions to the policy
required?

Are there any other coverage for which eligibility
may be required?

Daley”s Fine Foods

CENTRAL MICHIGAN LUMBER
Aluminum Combination WINDOWS
Truck Load Regular Sizes
40% Reg. 8.95 450

Join Your Friends in Our
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SPECIAL COCKTAIL HOURS
5 p.m. - 7 p.m.

Daley’s Fine Foods
South St., St. Johns

FEB. TIRE SPECIAL
Triple “Star” 200

Premium Tire
Buy 1 Tire at Regular List
Price and Get
2nd Tire for 99¢

WITHIN 90 DAYS OF SALE PURCHASE!
FREE INSTALLATION

HUB TIRE CENTER
Tires, Tires, Tires...in Cars, Trucks, Trailers
NOW! — RECAPED — USED
Reg. 300 400 500

SPECIAL SALE on General Electric ALARM CLOCKS
Reg. 249 250 275

Luminous Dial Alarm
Reg. 5.79

Dial Alarm
Reg. 1.95

Snooze Alarm
Reg. 5.95

450

Lighted Dial
Reg. 8.95

Lighted Dial
Reg. 6.50

A photograph of one of many centerpieces and floral
burys. The perfect touch for any room in your home.

Perfect Touch... for every room in
Your Home
Cloths always add the
finished touch to make your
home brighter and more
comfortable.

Woodbury
Flower Shop
“QUALITY FOR EVER ENDURANCE”

MacKinnon’s
FINAL REDUCTIONS on Ladies’ Coats and Dresses
Ladies’ Coats Now $1200 1300 1500 1800
1900 2500 3200
Ladies’ Better Dresses $300 400 500
Boys’ Winter Pants 1/3 Off — New 1st 2nd 27
20% Off Girls’ and Ladies’ Sports Wear

Mr. Farmer...

$4.00 per ton

THIS IS WHAT YOU SAVE
THRU FEBRUARY!*

Mr. Farmer.

Mr. Farmer

NOW! — RECAPED — USED
Reg. 300 400 500

SNOOZE ALARM LIGHTED DIAL

59¢

12x24x1

300 400 500

FURNACE FILTERS

24x20x1

59¢

2nd Tire for 99¢

CARTON SALE
FURNACE FILTERS

49¢

16x20x1

49¢

16x20x1

59¢

SPEAK FUEL with Clean, New Filters

WOODBURY
Flower Shop
“QUALITY FOR EVER ENDURANCE”

MacKinnon’s
FINAL REDUCTIONS on Ladies’ Coats and Dresses
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20% Off Girls’ and Ladies’ Sports Wear

Mr. Farmer...

$4.00 per ton

THIS IS WHAT YOU SAVE
THRU FEBRUARY!*
Stock Your Freezer with these Unbeatable Frozen Food Values!

**U.S. Choice Tenderay Ribs or Round Steak**

Shank Half

- Smoked Hams

**PERCH FILLETS**

FISH STICKS

**BREADED SHRIMP**

Fresh Frozen

Fryer Breasts

- Avondale Frozen 9-oz.

Ice Cream

- 3 gal. 39c

Kroger Brand

Banquet Frozen

- 1/4-lb. Pies 29c

- Pot 8-oz. 15c

U.S. r1 Michigan

- Potatoes 25 lb. 89c
  - 50 lb. 1 lb. 59c

**FROZEN FOODS**

**TENDERAY BONELESS BEEF**

- Arm Chucks lb. 49c
- Tenderay Beef Shoulder Rounds w/Rump lb. 69c
- Beef Ribs lb. 89c
- Tenderay Beef Loins lb. 1.99

**TENDERAY BONELESS BEEF ROUNDS w/RUMP**

- 1/4-lb. pkg. 49c

**TENDERAY BEEF RIBS**

- 10" 29c

**ROUNDS w/RUMP**

- 1/2-lb. pkg. 69c

**TENDERAY BEEF LOINS**

- 1-lb. pkg. 99c

**CHILI**

- 2 15-oz. cans 59c

**TENDERAY BEEF RAVIOLI**

- 1-can 29c

**MEAT OR MUSHROOM**

- 2-lb. pkg. 89c

**Chef Boy-Ar-Dee**

- BEEF RAVIOLI 29c
- BEEFARONI 29c
- CHILI 29c
- BEEF RAVIOLI 29c
- BEEFARONI 29c
- CHILI 29c

**FRESH SHORE FROZEN FOODS**

- PERCH FILLETS 10" 29c
- FISH STICKS 10" 29c
- BREADED SHRIMP 10" 29c

**FRESH**

- SWISS STEAK 89c
- Bottom Round Steak 99c
- Rolled Rump Roast 99c
- CUBED STEAK 1.09
- Top Round Steak 1.09

**FRESH MEAT**

- Beef Sirloin 1.29
- Hamburger 1.19

**FRESH VEGETABLES**

- Tomatoes lb. 29c
- Lettuce 1.15
- Avocados 1.99
- Red Radishes or Green Onions each 10c

**FRESH FRUITS**

- Navel Oranges 24 for 99c
- Temple Oranges 12 for 99c
- California Oranges 24 for 99c
- California Oranges 12 for 99c

**FRESH PRODUCE**

- Tomatoes lb. 29c
- Lettuce 1.15
- Avocados 1.99

**KROGER VAC-PAC COFFEE**

- 1-lb. can 58c

**KROGER BAKED COFFEE CAKE**

- 1-lb. pkg. 25c

**COFFEE CREAMER**

- 1-lb. pkg. 25c

**FRESH ORANGE JUICE**

- 1-gallon 62c

**SWISS STEAK**

- 1-lb. pkg. 89c
- Bottom Round Steak 99c
- Rolled Rump Roast 99c
- CUBED STEAK 1.09
- Top Round Steak 1.09

**TENDERAY BONELESS BEEF ROUNDS w/RUMP**

- 1/4-lb. pkg. 49c

**TENDERAY BEEF RIBS**

- 10" 29c

**ROUNDS w/RUMP**

- 1/2-lb. pkg. 69c

**TENDERAY BEEF LOINS**

- 1-lb. pkg. 99c

**CHILI**

- 2 15-oz. cans 59c

**TENDERAY BEEF RAVIOLI**

- 1-can 29c

**MEAT OR MUSHROOM**

- 2-lb. pkg. 89c

**Chef Boy-Ar-Dee**

- BEEF RAVIOLI 29c
- BEEFARONI 29c
- CHILI 29c
- BEEF RAVIOLI 29c
- BEEFARONI 29c
- CHILI 29c

**FRESH SHORE FROZEN FOODS**

- PERCH FILLETS 10" 29c
- FISH STICKS 10" 29c
- BREADED SHRIMP 10" 29c

**FRESH**

- SWISS STEAK 89c
- Bottom Round Steak 99c
- Rolled Rump Roast 99c
- CUBED STEAK 1.09
- Top Round Steak 1.09

**FRESH MEAT**

- Beef Sirloin 1.29
- Hamburger 1.19

**FRESH VEGETABLES**

- Tomatoes lb. 29c
- Lettuce 1.15
- Avocados 1.99
- Red Radishes or Green Onions each 10c

**FRESH FRUITS**

- Navel Oranges 24 for 99c
- Temple Oranges 12 for 99c
- California Oranges 24 for 99c
- California Oranges 12 for 99c

**FRESH PRODUCE**

- Tomatoes lb. 29c
- Lettuce 1.15
- Avocados 1.99

**KROGER VAC-PAC COFFEE**

- 1-lb. can 58c

**KROGER BAKED COFFEE CAKE**

- 1-lb. pkg. 25c

**COFFEE CREAMER**

- 1-lb. pkg. 25c

**FRESH ORANGE JUICE**

- 1-gallon 62c
The regular meeting of the Board of Education was held at 7:30 p.m. in the library. Following the invocation, "Mother's Day" was observed. A floral tribute was presented to Mrs. T. E. Biggs, before whom Mrs. D. E. Biggs presented a bouquet of flowers. It was moved and seconded that three hundred dollars be appropriated for the purchase of a desk and chairs for a new classroom. It was moved and seconded that the purchase of a new desk and chairs be approved.

Mrs. Bancroft taught Minor Home Repairs

The Rochester Colony House, 620 East Second Street, will hold a meeting of its members on May 15th at 7:30 p.m. The meeting will be held in the library. There will be a discussion on the care of minor homes, including the problems and solutions faced by minor home families. The meeting is open to the public and everyone is welcome to attend.

ORCHARD PRUNE YOUR HARDWARE

New Home Energy - Automatic Chain Saw

ASHLEY HARDWARE

Phone 386

ST. JOHN'S SCHOOL DISTRICT

Board Proceedings

"The regular meeting of the Board of Education was held at 7:30 p.m. in the library. Following the invocation, "Mother's Day" was observed. A floral tribute was presented to Mrs. T. E. Biggs, before whom Mrs. D. E. Biggs presented a bouquet of flowers. It was moved and seconded that three hundred dollars be appropriated for the purchase of a desk and chairs for a new classroom. It was moved and seconded that the purchase of a new desk and chairs be approved.

Report of Superintendent

Mr. E. W. Smith, Superintendent of Schools, presented a report on the progress of the school district. He stated that the district had made significant improvements in the past year, including the construction of a new elementary school and the expansion of the high school. He also mentioned the increased enrollment and the successful implementation of the new curriculum.

Finance Report

Mr. T. W. Brown, Treasurer, presented the financial report for the past year. He stated that the district had experienced a slight increase in revenue, primarily due to the growth in enrollment. The district's expenses had also increased, but the overall financial position remained stable. The report was approved by the board.

New Business

Several new business items were discussed, including the purchase of new furniture for the classrooms and the implementation of a new student identification system. The board approved all new business items.

Adjournment

The meeting adjourned at 8:30 p.m. The next regular meeting of the Board of Education will be held on May 15th at 7:30 p.m. in the library.
CLINTON COUNTY
SUPERVISORS' PROCEEDINGS
MOUNT, JANUARY 3, 1966

The Clinton County Board of Supervisors met in regular session in the commissioners' room of the courthouse in St. Johns on Monday, January 3, 1966.

The minutes of the previous meeting were read and approved.

Motion: A motion was made by Supervisor Paint and seconded by Supervisor Shibley, to change the meeting to Thursday, January 6, 1966.

The motion was carried by a vote of 5 to 2. Supervisor Shibley and Supervisor Sturtevant abstained from voting.

The following reports were received and accepted:

CLINTON COUNTY
FINANCE REPORT

For the month of December, the county received the following:

- State and Federal taxes
- Property taxes
- Other local taxes

The following reports were received and accepted:

CLINTON COUNTY
SCHOOL DISTRICT REPORT

For the month of December, the school district received the following:

- State and Federal aid
- Local taxes
- Other funds

The following reports were received and accepted:

CLINTON COUNTY
LIBRARY REPORT

For the month of December, the library received the following:

- State and Federal aid
- Local taxes
- Other funds

The following reports were received and accepted:

CLINTON COUNTY
HOSPITAL REPORT

For the month of December, the hospital received the following:

- State and Federal aid
- Local taxes
- Other funds

The following reports were received and accepted:

CLINTON COUNTY
DRAIN COMMISSIONER'S REPORT

For the month of December, the drain commissioner received the following:

- State and Federal aid
- Local taxes
- Other funds

The following reports were received and accepted:

CLINTON COUNTY
SHERIFF'S REPORT

For the month of December, the sheriff received the following:

- State and Federal aid
- Local taxes
- Other funds

The following reports were received and accepted:

CLINTON COUNTY
COUNTY TREASURER'S REPORT

For the month of December, the treasurer received the following:

- State and Federal aid
- Local taxes
- Other funds

The following reports were received and accepted:

CLINTON COUNTY
COUNTY AUDITOR'S REPORT

For the month of December, the auditor received the following:

- State and Federal aid
- Local taxes
- Other funds

The following reports were received and accepted:

CLINTON COUNTY
COUNTY COMMISSIONER'S REPORT

For the month of December, the commissioner received the following:

- State and Federal aid
- Local taxes
- Other funds

The following reports were received and accepted:

CLINTON COUNTY
COUNTY CLERK'S REPORT

For the month of December, the clerk received the following:

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- Local taxes
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SUPERVISORS' PROCEEDINGS

Continued from page 10...

In disposed of and will be police presented, motion carried.

The Chairman said the meeting would be adjourned until 1:00 p.m.
After recent return from the Development Committee and the Health Committee was heard.

Supervisor Angell presented the report of the Builder and Clerk Work Committee, recommended and moved, that the building be used as an exhibition building. The chairman of the Board of Directors, was supported by Supervisor Angell, voted and carried.

At this time the work presented was to be used for new new panel and for new panel and panel improvements. A motion was made by Supervisor Tiedt, and the proposal was supported by Supervisor Angell, the motion was carried.

A motion was made by Supervisor Angell and supported by Supervisor Gove, that this Board, under the powers to it is presented, to the north, west and south of same. No fence is required.

The Chairman named the Public Relations Committee to make arrangements for a February 10, 1966, meeting for the Board of Directors and the Management Committee.

A motion was made by Supervisor Angell and supported by Supervisor Tiedt, that in as much as the Clinton County Abstract Department was not in session, the committee, to whom were instructed to investigate and report on a question of the proposed motion, and that the motion be dispensed with and they be paid as presented. Motion carried.

After a general discussion on reappraisal and equalization, the Board voted to: 1. All of the operations of the Auto Salvage Yard together, with the storage and maintenance of the equipment, shall be on the north, east and west sides of the yard.

2. The fenced area shall be on the south side of the yard and specified as the north, west, south and east sides of the yard.

3. The fence shall be of a maximum height of eight feet but may be higher and in any event shall be high enough to cover all of the circumference of the yard. The fence on the east and west sides may be of any type material.

4. The gate on the north side of the yard shall be of the same material as the north fence.

5. The north fence shall be on the same side of the yard as the south fence.

6. The fenced area shall not be on the corner of Hyde Road as Demolish a distance of 15 feet.

7. The present garage shall be painted and the outside maintained in a neat and orderly manner.

After further discussion the following restrictions were passed:

1. All of the operations of the Auto Salvage Yard together, with the storage and maintenance of the equipment shall be conducted on the north, east and west sides of the yard.

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Keith Wright's seven-acre farm pond, the largest in the county, is a good example of a good conservation practice. The pond behind the dam can be used for fishing, recreation, irrigation, and in the winter for skating. At the dam, the water is over 20 feet deep. (Story on Page 8-C.)

A salute to . . .

Clinton County Soil Conservation District

Annual Meeting — Saturday, February 5, 1966
BUILDING FOR THE FUTURE

A real craftsman can tell you. To build solidly, start with a good plan, and keep at it steadily.

Building for the future is not too different.

- Soil conservation is just one facet of the fabulous future that can mean more farm income.
- We recommend that you cooperate with the Clinton County Soil Conservation District.
- Banking plays an indispensable part in agricultural progress by providing the financing for new equipment and expansion.

Explore the Possibilities for Financial Growth at

WOODRUFF STATE BANK
Member of the Federal Depositors' Insurance Corporation
DeWITT, MICHIGAN

Safeguard Your Future — Practice Good Soil Conservation

We Believe in
Soil Conservation

We Are Here to Serve You!

- SEEDS
  - "ARMOUR" FERTILIZER—bagged and bulk
  - ANHYDROUS AMMONIA
- FEED and FARM SUPPLIES
- CORN and BEANS

OVID ROLLER MILLS

PROGRAM

CLINTON COUNTY SOIL CONSERVATION
DISTRICT ANNUAL MEETING

Below is the program for the ninth annual meeting of the Clinton County Soil Conservation District, which will begin at 11 a.m. Saturday, February 5 at Smith Hall in the City Park. The public is invited to attend. Dinner tickets are available at the Soil Conservation office at 100 S. Ottawa, St. Johns or from any district director. Price of tickets is $1.50.

11:00—JUDGING OF SOIL AND WATER EXHIBITS
Judges: George P. Graff, Soil Conservation Committee; W. D. Miller, area conservationist, Soil Conservation Service; and Harry E. Neeman, advisor, Michigan Association of FFA Future Farmers of America—Soil Water Exhibits sponsored by the Clinton County Soil Conservation District and Michigan Agricultural Nitrogen Co.

12:00—DINNER

12:45—INTRODUCTION—Robert Moore

1:00—ANNOUNCEMENT OF FFA WINNERS
Awarding of Prizes—William Mayers

1:10—ENTERTAINMENT
Sandra Dershem

1:25—ELECTION OF DIRECTORS

1:30—MINUTES AND TREASURER’S REPORT 1965 ANNUAL MEETING

1:35—DIRECTORS’ REPORT—Robert Moore

1:40—AWARDS
Outstanding Farmer Plaque
Conservation Farmer Signs
Stanley Baird and Keith Wright

1:50—DR LOUIS WOLFANGER

2:40—DOOR PRIZES—Keith Wright and George McQueen

FINANCIAL REPORT
Clinton County Soil Conservation District
January 15, 1966

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
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<tr>
<td>Balance on Hand January 15, 1965</td>
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<td>RECEIPTS:</td>
<td></td>
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<td>District Administrative Fund</td>
<td>$414.00</td>
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<tr>
<td>Conservation District Aide Fund</td>
<td>$303.00</td>
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<tr>
<td>State and National Meetings</td>
<td>$2.20</td>
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<tr>
<td>Board of Supervisors</td>
<td>$2,814.45</td>
</tr>
<tr>
<td>Sale of Trees</td>
<td>$695.15</td>
</tr>
<tr>
<td>Tree Planter Rental</td>
<td>$17.00</td>
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<td>Land Levee Rental</td>
<td>$530.00</td>
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<td>Annual Meeting</td>
<td>$105.00</td>
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<td>Teachers’ Scholarships</td>
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<td>Newsletters (Sponsors)</td>
<td>$125.00</td>
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<td><strong>Total</strong></td>
<td><strong>$5,289.85</strong></td>
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<td>DISBURSEMENTS:</td>
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<td>Office Supplies</td>
<td>$146.68</td>
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<td>Directors’ Expenses</td>
<td>$309.89</td>
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<td>Fees and Dues</td>
<td>$78.00</td>
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<td>Conservation District Aide</td>
<td>$2,814.45</td>
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<td>Trees Purchased</td>
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<td>Annual Meeting</td>
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<td>Youth Activities</td>
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<td>Publications (includes Newsletters)</td>
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<td>Teachers’ Scholarships</td>
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<td>Bonding (Treasurer)</td>
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<tr>
<td>Soil Stewardship (Church插入s and Bulletin)</td>
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<td>Junior Directors</td>
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<td>Land Levee</td>
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<td>Miscellaneous</td>
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<td>Refund on Trees</td>
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<td><strong>Total</strong></td>
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<td><strong>Balance on Hand January 15, 1966</strong></td>
<td><strong>$528.91</strong></td>
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</table>
John L. Jones named 'Cooperator of 1965'

The Clinton County Soil Conservation District Soil and Water Conservation Farmer for 1965 is John L. Jones of 124 W. French Road, Greenbush Township.

Jones owns 210 acres and rents another 160 acres. He is milking over 50 cows and raises several dairy steers. This past summer he grew 50 acres of row crops consisting of 15 acres of corn, 40 acres of white beans, and soybeans.

He planted 2,000 feet of multi-rotor rows this season. Also in 1965 he planted about 1,000 conifers and 100 honeylocust shrubs for wildlife habitat. Today these trees are 20 feet high and provide shelter for rabbits and other wildlife. The multi-rotor rows are eight feet high and is providing travel lanes and nesting areas besides winter food for wildlife.

Jones' work and interest in conservation is cooperative with the Benoit drain basin. The landowner has constructed many bird houses and several bird feeders during the past years to help their wildlife friends.

In 1963 Jones installed one weir and one precast drop box to protect the ditch. In 1965 the ditch in cooperation with neighbors and district commissioner, was enlarged. Because of the deeper, one weir and one precast erosion control structure were added. These four structures provide surface water entrance into the deeper channel.

JONES HAS developed several grass waterways to bring the surface water to the structures. The water is discharged through erosion control structures.

In 1963 Jones installed one weil and one precast drop box to protect the ditch. In 1965 the ditch, in cooperation with neighbors and district commissioner, was enlarged. Because of the deeper, one weir and one precast erosion control structure were added. These four structures were to protect the ditch. In 1965 the ditch, in cooperation with neighbors and district commissioner, was enlarged. Because of the deeper, one weir and one precast erosion control structure were added. These four structures provide surface water entrance into the deeper channel.

JONES has developed several grass waterways to bring the surface water to the structures. The water is discharged through erosion control structures.

The job of soil conservation is here to stay. We support the districts and its farmers in their job of conserving our strength, our soil.

The job of soil conservation is here to stay. We support the districts and its farmers in their job of conserving our strength, our soil.

Jones' work and interest as a cooperators with the Benoit drain basin is cooperative. The landowner has constructed many bird houses and several bird feeders during the past years to help their wildlife friends.

For Your Profit's sake...

OLIVER FARM EQUIPMENT

The job of soil conservation is here to stay. We support the districts and its farmers in their job of conserving our strength, and wealth . . . our soil.

State Distributors for
PAPEC FORAGE EQUIPMENT
STARLINE EQUIPMENT

CABLE Enterprises, Inc.
12271 Chandler Road, BATH, MICH. Phone 641-6538

For the Land's sake...

Let's Farm Clinton County on the Level

WORK REPORT

For the year July 1, 1964 to June 30, 1965

For the year July 1, 1964 to June 30, 1965

Thursday, February 3, 1966
Clinton County News, St. Johns, 'Mich. Page 3C
Aerial Seeding  
Fertilizing  
Spraying-Dusting  

Our Aerial System Gets the Job Done Quickly and at Low Cost

STAY OFF THE SOIL

USES OUR AERIAL SYSTEM  
Which is Approved by Your County Soil Conservation District

We Operate Our Own  
FULLY-EQUIPPED AIRPLANE

Max Miller

OTYD 5504 Kimley Rd.  Ph. 514-0191

Soil conservation depends on you . . . act now!

Assure continued profitable production by conserving, maintaining and improving your land through crop rotation, to prevent soil depletion; contour plowing, for sloping sites; drainage for wet land, and other tested techniques.

See Us For Your Michigan Certified Seed

WHEAT-OATS-CORN-BEANS  
SMITH-DOUGLASS FERTILIZER  
LIQUID and DRY NITROGEN

New Available in Bulk with Spreading Facilities at Elsie Elevator

Soil conservation is using each acre of land for the maximum returns. Proper use of fertilizers to get the most from your soil is a must today. See us and get your early spring discount on Smith-Douglass Pelletform fertilizer which contains all necessary trace elements.

ELSIE ELEVATORS  
PHONE ELSIE 952-4200

OVID TOWNSHIP  
Kenneth Kneeman 100, Joe Pott 140,  
Albert Wieland owner, ede Bruce  
Ireland operator 315.

HIGHLAND TOWNSHIP  
Robert Kneeman 150, Lee Prout 190,  
Robert Wieland owner, ede Bruce  
Ireland operator 315.

DALLAS TOWNSHIP  
Roy Clark owner,经营 as part of  
Norland 130, George Smith 180,  
Robert Prout 50.

DUPLIN TOWNSHIP  
Duluth Church of Christ 6, Orrin Ams  
Emerson Dalmah 100, Ovoldin  
Ams 6, S. F. Smit 10.

EISEX TOWNSHIP  
Douglas W. Cook 45, Gaylord Craig  
Raymond Morris 194, Ronald  
Upton 345, Robert Young 40.

GREENWUSH TOWNSHIP  
John Beck 191, Glen Bonn 210,  
Daley 220, Harold O. Williams  
Joe Purvis 65, Melvin Smith 120,  
G. O. Speller 150, Robert Davis  
Veta 250, David Wislock 60.

OLIVE TOWNSHIP  
Paul Benner 60, Arnold Rhoad 165,  
Howard Brown 65, John E. Oatley  
10, Kenneth Fick 300, Harwood  
Luker 185, Joe Miller 46, Harold  
Littlefield 310, Melvin Roderick  
15, Blasch 30, Ernie Belk 30,  
Raymond Oatley 194, David  
Wislock 65, Fran Luker 62.

OVID TOWNSHIP  
Kenneth Chamberlain 60, Jay Newton 100,  
Arthur Kelley 197, A. J. Kil- 
ley Sr. 165, A. M. Chis  
165.

BILLY TOWNSHIP  
Robert Barks 60, Lyle Riegel 60,  
Charles Lucas 180, Earl Jones 600,  
Jesse Jones 240, George Soree  
50.

VECTOR TOWNSHIP  
Edward Barks 60, Robert A. Wil- 
son 50.

WATERFORD TOWNSHIP  
Mable Harsell 40, Melvin Thiel  
150.

WESTPHALLA TOWNSHIP  
Romain Flesher 60, Fred Knoke  
100, Gerald H. Riegel 160,  
Michael Thiel 65, Leland Thiel  
50.

Tile essential on wetlands

By ROBERT BORUSZEWSKI  
Soil Conservation Service  
Civil Engineer

Aerial Seeding

Proper use of fertilizers to get the most from your soil is a must today. See us and get your early spring discount on Smith-Douglass Pelleform fertilizer which contains all necessary trace elements.

A properly designed automatic pumping plant provides an adequate outlet for your tile and solves a serious conservation problem of water drainage. After other means of establishing an adequate outlet were investigated and found not practical, a co- 

operator of the Clinton County Soil Conservation District, Regi- 

nald Stevens, installed a pumping plant.  

STEVENS INSTALLED a rela- 

tively inexpensive pumping plant because of extremely wet soil condi-

tions at the time of installation. He bought precast concrete pipe type sections from a Michigan manufacturer. The site was ex-

cavated and kept pumped down by a portable gasoline pump while a  

backhoe lowered the first of the precast sections in place at the proper depth. Then according to the design, other sections were stacked up to ground elevation and in this manner the pump was installed.

The pump has solved a conservation problem. It enables Stevens to farm his land and use each acre agriculturally within its capability by fol-

lowing a conservation farm plan.

THERE ARE various types of pumping plants that can be in-

stalled and your local Soil Con-

servation Service technician will be happy to assist coopera-

tors with a suitable design.

Other possible installations are silo sumps, storage ditch reservoirs, steel tanks, and ce-

ment block sumps.

67 record basic plans

A total of 67 Clinton County Soil Conservation District cooper-

atives recorded their conservation plans with the district in 1965.  

The 67 conservation plans cover a total of 8,613 acres. They are listed by township, with the figures following the names rep-

resenting the number of acres involved.

OVID TOWNSHIP: 
Joe Purvis 65, Melvin Smith 120,  
G. O. Speller 150, Robert Davis  
Veta 250, David Wislock 60.

OLIVE TOWNSHIP: 
Paul Benner 60, Arnold Rhoad 165,  
Howard Brown 65, John E. Oatley  
10, Kenneth Fick 300, Harwood  
Luker 185, Joe Miller 46, Harold  
Littlefield 310, Melvin Roderick  
15, Blasch 30, Ernie Belk 30,  
Raymond Oatley 194, David  
Wislock 65, Fran Luker 62.

OVID TOWNSHIP: 
Kenneth Chamberlain 60, Jay Newton 100,  
Arthur Kelley 197, A. J. Kil-

ley Sr. 165, A. M. Chis  
165.

BILLY TOWNSHIP: 
Robert Barks 60, Lyle Riegel 60,  
Charles Lucas 180, Earl Jones 600,  
Jesse Jones 240, George Soree  
50.

VECTOR TOWNSHIP: 
Edward Barks 60, Robert A. Wi-

son 50.

WATERFORD TOWNSHIP: 
Mable Harsell 40, Melvin Thiel  
150.

WESTPHALLA TOWNSHIP: 
Romain Flesher 60, Fred Knoke  
100, Gerald H. Riegel 160,  
Michael Thiel 65, Leland Thiel  
50. *

The pump on the Reginald Stevens farm in operation

* * *
Urges action against pollution

By ROBERT MOORE
Chairman Clinton SOCD

Michigan is one of the fastest growing states due to our industry, tourist trade, and large agri-culturally based population and an ever-increasing per capita demand on our water use, an “adjustment is essential because the increasing demand will soon exceed the comparatively constant supply of water. Only by the reuse of water will the supply meet the increases in demand.”

Reuse of the water cannot occur if the water is degraded by pollution. Pollution control therefore is of the utmost importance in coping with the overall water situation. We pollute water in many ways. A few of the ways are septic tanks and raw sewage discharging directly into ditches, streams, and lakes.

SOAPS AND detergents are very close to break down and can readily be found in water. Our factories have wastes that are very difficult to dispose of and some of these escape and can be found in our surface waters. We, as farmers, contribute to the problem further by using insecticides, herbicides, manure, and fertilizer and thus letting our fields erode, taking small particles of clay off the soil and into the drainage ditches. With these particles of eroded soil, relatively insoluble minerals may be carried off, contributing further to water pollution.

Maybe we should look a little further to see what polluted water is. The World Book Encyclopedia states “Pollution is the contamination of substances so that they are unfit for an intended use.”

If you are going to use the water for household use, it should be free of bacteria, objectionable tastes, other minerals, and clear. When we go to the beach to swim, the water should be free of bacteria, clear, and a sandy beach free of soil and mud. For the fisherman, the water should be a healthy place for the fish to live, low in organic matter and free of minerals that might cause off-flavor.

I am sure that with nominal standards most of our streams and many of our lakes are unfit for uses being made of them today. Are we ready in the Clinton area to solve the problem. If you want to get information concerning pollution you can stop in at the extension, zoning, drain, or soil conservation offices.

LLET EACH OF us take responsibility for our own contribution to pollution. We could start by taking inventory around our own house, village, industry, and then plan what the corrective measures might be—an improved septic system, a lagoon for waste, or possibly asking for research to solve the problem. If you want more information concerning pollution you can stop in at the extension, zoning, drain, or soil conservation offices.

World hunger—

“The great Indian leader, Mahatma Ghandi, once said, “There millions who have to go without two meals a day, the only acceptable form in which God dare appear is food.” Although Ghandi passed away some years ago, the hunger that he wrote about so fearfully is still a grim fact of life, not only in India, but also in many other parts of the world.

Our SOIL is STRENGTH...

The Way We Use It - OUR FUTURE

The prosperity of your farm is vital to the future of Clinton County...

one more reason why we are eager to serve your farm financing needs

See Us For...

- Farm Loans
- Equipment Financing
- Farm Supply Financing
- Improvement Loans
- Check Accounts
- Savings Accounts
- Safe Deposit Boxes

New Offices of the CENTRAL NATIONAL BANK in ST. JOHNS — Corner of Spring and Walker Streets

DRIVE-IN WINDOW at our new offices for your convenience.
DeWitt Lumber Company

**Practice Good Soil Conservation**

Guaranteed 100 Years in Written Certificate Form

The Michigan Vitrified Tile Co.

Insist on Michigan Vitrified Tile...

- High Crushing Strength
- Low Absorption
- Acid Resisting
- Frost Proof
- Exceeds Required Specifications

He did something about his private lake idea

By ORVILLE BEACHLER

Soil Conservation Technician

Have you ever wished for your own private lake so you could enjoy your fishing or swimming in peace and quiet? A farmer in Clinton County did, and he proceeded to do something about it.

Keith Wright of Lebanon Township thought he had a good spot for a lake, even though two previous attempts to build a dam to hold the water had failed.

Wright, a cooper and director of the Clinton County Soil Conservation District, asked Soil Conservation Service technicians to come out and determine if he had a feasible site to build a lake.

The technicians investigated the soils and found them suitable for the construction of a dam. A preliminary survey also revealed that Wright could have at least 20 feet of water at the dam and a pond of about seven acres.

Wright learned that because a new law passed by the 72nd legislature of Michigan, he had to apply to the Michigan Conservation Department for permission to construct the pond. Engineers of the US Soil Conservation Service prepared the construction plans for the dam and supplied technical service during its construction. Wright also had to have the permission of the Clinton County Board of Supervisors for the construction of his pond.

All Soon! All permission from the various agencies involved was received, Wright and his sons, Daniel, Jim, Michael and Peter started to construct the dam. Wright had previously purchased a bulldozer and dump trucks, and with a homemade earth-moving pan and two men over scrapers, these hard working folks constructed the dam and excavated the emergency spillway.

The pond was filled with water by the middle of December, and the Wrights are looking forward to some pleasant hours of ice skating this winter.

This pond should also furnish them with swimming, fishing and water skiing next summer. Keith also expects to do some irrigating with water from the pond.

**Water world's critical resource**

“The need to expand and manage properly the world’s water supply is urgent. Scientists go so far as to say that the demand for water will double in only 20 years—and they warn that, without massive water development, the hopes of great strides in good production for a hungry, even more populous world will be lost.”

“The present three billions (of people), of whom the larger proportion live in tropical Africa, for instance, average just over 3,000 gallons per person per year, compared with 110,000 gallons for western Europe and 220,000 gallons for the U.S.”

“The present three billions of people, of whom the larger proportion live in tropical Africa, for instance, average just over 3,000 gallons per person per year, compared with 110,000 gallons for western Europe and 220,000 gallons for the U.S.”


Raindrops can't fill the ground running if they fall into a good pasture sod.
67 new cooperators
joined district in 1965

Sixty-seven new cooperators
joined the Clinton County Soil
Conservation District in 1965,
according to Robert Moore,
chairman of the directors of the
Clinton SCD.

Their 5,063 acres brings the
total acreage under agreement
in the district to 115,648 acres.

New cooperators and acres are:

BATH TOWNSHIP: W. T. Ross
19, K. D. Munson 40.

ESSEX TOWNSHIP: Walter,
Martin 180, John H. Schmidt
18, K. D. Munson 40.

EDGERTON TOWNSHIP: Ray on-
drine owner and Darrell L. Martin op-
erator 125, Lyle Davis 65, Ori-
lette M. Easlick 160.

ESSEX TOWNSHIP: William
Mayers 150.

EVERSMAN CRANK AXLE
The main wheels of the Eversman 329 have been moved
further ahead ... and combined with NEW SPRING tension on
the blade give faster, more accurate leveling and dirt moving
action through greatly increased cutting and filling perform-
ance. Here is a big machine for dirt moving and leveling—
longer, heavier, stronger — yet built to sell at a LOWER COST.
For 3 plow tractors.

OUTSTANDING FEATURES — Length 32'6".
Width 12'. Blade capacity 13/4 cubic yards.
Blade vertical travel 13". Weight 2010 pounds.
Front V smoother blade for clay busting and
use on heavy dry soil. Front Dolly Assembly for
use in loose, moist and trashy soil conditions.
Suspension front end provides simple,
fast regulation for load in cutting blade.
Rear Smoother Blade adjustable to all soil con-
ditions.

There Are Eversman Models to Fit
All Standard Farm Tractors

These machines can be purchased through the Clinton County,
Soil Conservation District. They also can be rented at $25.00 per
acre.

For More Information Call
Bob Moore : Keith Wright : Stanley Baird
Phone 862-5163 Phone 682-2584 Phone 669-9433

William Mayers : Clarence Manning
Phone 224-4566 Phone 387-4033
Soil Conservation Is a Must

We congratulate the Clinton County Soil Conservation District for their outstanding job of conserving our soil. We support the farmers of this area and their conservation program.

Home Furnishings ARE ALSO A MUST...

Come in and check our complete line of quality merchandise. Our products are sure to fill your needs... our low, low prices will please you.

WE HAVE AN OUTSTANDING LINE OF HOME FURNISHINGS

- Living Room Suites
- Dining Room Suites
- Dinette Sets
- Bedroom Suites
- Spring Mattresses
- Chairs
- Occasional Tables
- Lamps
- Hi-Fi-Stereo
- Radios-TV
- Carpeting
- Small Appliances

BECKER'S Furniture Store
FOWLER Free Delivery Phone 582-2161

Practice Makes Perfect...

Fertilization Makes Sure!
Serving Clinton Area Farmers with the Finest In Fertilizer

PELLEFORM PETER says:

We congratulate the Clinton County Soil Conservation District for their outstanding job of conserving our soil. We support the farmers of this area and their conservation program.

TREL is like insurance... when you need it... it's too late to buy it.

Clinton Crop Services, Inc.
DOR BAST, Manager
6 Miles West of St. Johns on M-21

Junior directors of the Clinton County Soil Conservation District are left to right: seated, George Saxon of the Ovid FFA; secretary, and Ron Tholen of Pewamo; Westphalia FFA; standing, Dan Acre of the Elsie FFA, chairman; and Tom Lapraitt of Bath FFA. The junior director of the St. Johns FFA was not present when the picture was taken.

Jr. SCD directors still active

The junior board of directors of the Clinton County Soil Conservation District, composed of FFA members from the five chapters in Clinton County, are again active in the conservation program of the district.

They sponsored a soil judging contest last spring and plan to have another this spring. They are considering the possibility of helping landowners plant trees this spring. They hope to have more details on this activity later. The junior directors will also help the district directors of the SCD at the annual meeting Feb. 3 at Sturtevant Hall.

All five chapters are planning to enter exhibits in the Soil and Water Conservation Exhibit contest to be held at the annual meeting. The judging of the contest begins at 11:30 a.m.

Ag history of Michigan divided into three eras

By Verne M. Barthellt
Asst. State Conservationist
Soil Conservation Service

The agricultural history of Michigan can be divided into three eras. One, the exploration by the early pioneers who sought new lands and space in which to grow. Two, the exploitation by a progressive people seeking wealth and growth at the expense of soil and water resources. And now, conservation by a responsible and concerned people seeking security, strength, and assurance that Michigan's soil, water, and plant resources will be available for future generations. Wherever there is soil, water, and plants, man has made some use of them. In so doing, he has created problems. He has wasted cleared timber from erodible soil, leaving the soil unprotected from the ravages of water, element of the protective timber from the Lake Michigan dune areas or the marsh areas has created serious wind erosion problems.

Soil and water resources management problems in much of rural America. The uncorrected soil and water resource must receive our attention.

CIVILIZATIONS rise and fall on the basis of the changes in the basis of the abundance or lack of abundance of natural resources. Conservation of the soil and management of these resources must be more than a farm problem; it is an urban problem as well. People who own a city lot or a small farm or wish to enjoy the out-of-doors have an obligation to conserve the land.

See AG HISTORY page 25-C
On YOUR Farm
It TAKES MONEY To MAKE MONEY

and a Federal Land Bank Loan Will Help You Lick Your Financial Problems

IF YOU COULD USE MONEY FOR:

- Purchase of a farm or additional productive land
- Erection of new houses or farm buildings
- Repairing or modernizing buildings
- Purchase of new equipment or livestock
- Installation of tiling or fencing
- Payment of unexpected and costly medical or hospital expenses
- Assistance to parents or children in farming
- Or for any other agricultural expense

A LAND BANK LOAN is TAILOR-MADE for You

OUR LOW COST FINANCING (Current Rate 5 1/2%)

Will Pave the Way Today to Bigger Profits Tomorrow

If you desire additional protection for your family you may purchase Credit Life Insurance at low cost.

Here's Why More Than a MILLION FARMERS Have Banked on LAND BANK LOANS FOR 45 YEARS

LOW IN COST—You pay no hidden charges, service fees or commissions. You pay nothing except necessary recording and abstracting costs.

LONG TERM—Your Land Bank Loan repayments are stretched over long terms of years. Result: no bother and expense of costly, troublesome renewals.

CONVENIENT PAYMENTS—You pick the dates... and you have your choice of annual or semi-annual payments.

LOW INTEREST RATES—and you save the difference.

PREPAYMENTS—You can make special payments in advance when your budget says "yes",... or you can pay in full at any time-without a penalty.

SERVICE—When you look to the Land Bank and your Federal Land Bank Association for a financial lift, you're among friends, local people whose aim it is to provide you with the best low-cost farm loan service available... and every transaction is completely confidential. And remember—your local association is a service organization of farmer-members who are as familiar as you are with farming and its problems.
Waste water can be treated, used again

By DR. KARL L. SCHULZE
Division of Engineering Research
Michigan State University
East Lansing, Michigan

The quality of our surface waters, rivers and lakes, is de-
creasing from year to year. Fish kills occur annually in many of
our streams, especially where industrial wastes are being dis-
charged.

Even the Great Lakes, these largest of all freshwater lakes on
this continent, are in imminent danger. Every year beaches on
Lake Erie, Lake Huron or Lake Michigan have to be closed be-
cause they are unsafe for swimming or bathing. The same hap-
pen in the San Francisco Bay area, or in New York.

There is general agreement that pollution by municipal and
industrial wastes is the main cause of this deterioration. To
quote Rep. John Dingell (Democrat, Mich.): "By polluting and
seeking shortsightedness." We are creating a crisis by our
actions, there is no doubt in the future such so-called secondary waste-
treatment methods will not be sufficient any more.

Tertiary or third stage treat-
ment methods have to be de-
developed with the aim of removing
the many different types of water
contaminants to a much higher
degree than we are now practic-
ing.

RECOGNIZING this fact, I
See WASTE Page 34-C

Soil Conservation is
Dollar Conservation
Let GOWER'S Elevator
Help You Save Both

FERTILIZER...SEED...FEED
Seed Cleaning and Inoculation
Bulk Feed Delivery

It won't be long before the spring breezes will tell you the heavy
spring work season is here. So why not drop in now and get
lined up on the items you will be needing, and let us help you
make 1965 a profitable year of conservation farming.

We congratulate the soil conservation district of this
area and support their program of soil conservation.

Our job is to assist farmers and farming in this area.
We hope to continue to help farmers as has been done
in the past.

GOWER'S ELEVATOR — Your Complete Farm Service Center
FARM EQUIPMENT AND SUPPLIES
FERTILIZER...SEED...FEED

Bulk Feed Delivery

OVID Oil Co.
108 N. Mill
OVID MU 3-2802

EUREKA TE 2692

Keeping limited rainfall in soil vital job

By RUSSELL G. HILL

Michigan annually receives about 31 inches of rainfall. This includes water coming without notice. We are told that the supply has existed at this level for many centuries. Land and surface water problems are steadily rising. Those individuals who wish to build have a major influence on what happens to both the quality and quantity of surface water.

It is estimated that of the 31 inches of rainfall, about 21 inches either evaporate directly into the atmosphere or are transported through plants into the air. This leaves less than 10 inches of water annually that runs on the surface or percolates into the ground water table and eventually becomes a part of stream discharge into the area. It is this surface water that we are concerned about.

WATER IS THE BLOOD OF LIFE. Each individual uses approximately 30 gallons per day for personal use and manufactured goods. This figure has been increasing due to the many additional uses of water and growing populations.

Conservation checks soil erosion

Soil erosion is an important problem not only because of the loss of topsoil, but also because it is the most prevalent in agricultural water pollution.

George Graff, specialist in soil conservation at Michigan State University, reports that water runoff in one area causes raw gullies throughout Michigan. Because the weather has been dry in past years, many farmers have forgotten about water erosion. As a result, a lot of topsoil has washed away.

THE COOPERATIVE Extension Service specialist says many farmers have taken out grass waterways to provide a little additional drainage. At planting time it is very easy to simply plow the waterways under, and that can cause trouble.

Graff also cites fall-plowing, and lack of crop residues as contributing causes. Soil type must be kept in mind when cropping is being planned. As farm land identifies, there are more continuous row crops. Management of an erosive soil type must be carefully planned, the conservationist notes.

MINIMUM TILLAGE is a good method of reducing water erosion. Research shows that fields prepared with minimum tillage will reduce water runoff by as much as 50% per cent. Loose soil absorbs moisture rather than being packed down and allowing a more free runoff.

Graff suggests that farmers with erosion problems contact their soil conservation district or county Extension Service office and grass waterways. Farmers may conserve erosion practices can be approved and approved. Local ACSUS officers have been and have been

While "farmers" are aware of many of these practices, in dry years it is easy to forget. USO specialists conclude.

An Eleventh Commandment

"Thou shalt inherit the Earth as a faithful steward, conserving its resources and productivity from generation to generation. Thou shalt safeguard the fields from soil erosion, thy living waters from drying up, thy forests from desolation, and protect thy hills from overgrazing by thy herd, that thy descendants may have abundance forever. If any shall fail in this stewardship of the land, thy fruitful fields shall become sterile, stony ground and wasting gullies, and thy descendants shall decrease and live in poverty or perish from off the face of the earth."

MOORE SEED FARM

Elsie, Michigan

Phone: 662-5163 and 662-5342
GOOD FARMER
Is That He
Conserve His Soil

We Support Conservation Practices
Increase work capacity with new Allis-Chalmers Power...

ALLIS-CHALMERS
SALES, AND SERVICE
AUTHORIZED DEVAL MILKER SERVICE

NITROGEN
Nitrogen, that life giving plant food can put dollars in your pocket, and fertility in your soil. Help conserve our nation's wealth which is tied up in our soil. Nitrogen will help you bring out some of that inherent wealth from your soil to add to your farm profits. At the same time it will speed the decomposition of organic matter and hold your fertility... conserve your wealth.

We Congratulate the Clinton
County Soil Conservation District
and the many farmers in this area for their job of preserving our national wealth... the soil.

FOWLER MANCO Phone 582-2246

GOOD FARMER
Conserve His Soil

This farm pond built at the home of Max Elliott in Greenbush Township in 1962 adds beauty to the landscape and provides many hours of recreation for family and friends. That's Mr and Mrs Elliott in the canoe.

Beauty-an extra dividend of good conservation practice

By W. D. MILLER
Soil Conservation Service

The Soil Conservation Service is that part of the Department of Agriculture that has been charged with providing technical assistance to private landowners in this program.

The Soil Conservation Service has been working to provide technical assistance to private landowners in this program. This service is available at the local SCS office.
**Pondering good drainage**

*By E. H. Kidder, Associate Professor, Agric. Engineering Dept., MSU*

At first thought, a question of drainage might seem out of place after the recent dry years, however, may parts of the state received heavier than normal fall and early winter rains. We observed this same discharging water during the first week in January, which meant that the moisture taken out by crops during the past growing season has been replaced.

The excess water in the soil is moving to the tile drains. This existing water condition and present excess of water is helpful from the standpoint of recharging water to the formations that may yield our water wells, but it also sets the stage for an all-out wet spring. In this case, tile drainage of our heavier soils could make possible tilage operations a week to two weeks earlier than on undrained fields.

WE LIKE TO think that a good drainage system is the result of: 1) good outlets; 2) good system layout; 3) good design; 4) good materials; 5) good construction; and 6) good maintenance. We will elaborate on each of these six points.

ONE OF THE first questions that has to be asked when planning for the tile drainage is "where can we take the water to drain it out?" In many areas there will be available a ditch, however, to be satisfactory outlets have to be selected and induced and have enough water carrying capacity to meet the needs of the watershed. A ditch or stream may need to be enlarged and deepened to be satisfactory outlets.

When the area to be drained is low in elevation like many of our muck soils, it could be unreasonable and uneconomical to install a deep enough ditch to drain the area. We then consider the use of a low lift pump to lift the water from out of the tile system into a reasonable depth ditch. Once in a while a well is used as an outlet, but there is a great deal of uncertainty about 1) how much water a well will carry, or 2) whether sediment in the water will plug the water absorbing formation and 3) pollution of ground water.

IF OUR objective is to completely drain a field, the location of the tile lines in the field may need to be varied depending on changes in soil, the presence of springs or seepage, waterways, land slope and obstructing like pipe lines.

Our concern here is that the best possible system be planned in relation to the crop, slope, soil and water conditions that exist in the individual field some of the considerations in good design are:

1. **An Outlet** for the tile lines that is adequate. 2. An outlet that is protected against rodent entry. 3. The use of special practices where fine running and unstable soils are encountered. 4. The use of adequate minimum grade for the tile lines to reduce the possibility of sediment accumulation during dewatering. 5. The use of proper spacings between lateral lines to eliminate best type and crop requirement; 6. The placement of the tile at recommended depths for proper drainage of the root zone.

The concrete or clay drain tile that you buy should meet the specifications of the American Society for Testing Materials (ASTM) recommended. For instance, the tile will be placed at 1) unusual depths, 2) very shallow depths 3) under roads or 4) in unusually acid soils it will be desirable to check with your county agricultural agent or work unit conservationists as to whether or very high quality tile should be used.

THE IMPORTANCE of hiring a capable contractor when planning for your tile drainage is to do this properly designed drainage system is to do so in a competent manner. Proper installation is so very important if the system is to perform as planned. The contractor must know the right thing to do if unusual conditions are encountered. He should also call to the owner's attention any situations that may call for special attention. **For Greater Success in Your Soil Conservation Plans Specify Our Line of CLAY DRAIN TILE**

**OUR FUTURE IS IN OUR SOIL**

The future of our country lies in the fertility of our soil ... which is proven by the history of the world in the rising and falling of nations. Clinton county farmers and the Soil Conservation District have taken a step forward in preserving our American way of life. They have done this by preserving the roots of our soil, our soil.

Your County Farm Bureau

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COUNTY FARMERS AND CLINTON SOIL CONSERVATION DISTRICT
FOR THEIR PROGRESSIVE WORK
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Clinton County Farm Bureau
102 E. State St. ST. JOHNS Phone 224-7704

Practice Good Soil Conservation

**LEDG-CO Tile Tote**

New and modern way to transport and feed the drain tile from Grand Ledge Clay into the trench. Platte Brothers, Mary and Gene, prominent Clinton County ditching contractors, demonstrate here the labor saving efficiency of these LEDG-CO carts with direct hydraulic lift. (Helping demonstrate the new Ledg-Co's is farmer-salesman Corwin Smart.)

These Ledg-Co Carts are the greatest break-throughs in labor saving equipment since the ditching machine itself. Grand Ledge Clay's field tested Ledg-Co Tile Tote carts are on hand, ready to go! You owe it to yourself to see how they work. (Let us show you right away! OK.)

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**GRAND LEDGE CLAY PRODUCT CO.**

Phone 7-2104 Grand Ledge, Mich. 48837

1906 — 60 Years of Time Proven Clay Products. Good for as Many More — 1966
The Nature Centers Division, National Audubon Society, has completed its field study of existing and potential outdoor laboratory lands and facilities and the need for a conservation-education program in the tri-county region. The survey, report, and plan are now under study by key personnel in the region.

The Nature Centers Division, named after John James Audubon, famous American ornithologist, is one of the oldest, largest, and foremost private organizations working for the conservation of natural resources in America.

The survey report and plan involves a brief study of 13 acres in the tri-county region (outside Lansing) and 16 acres in Lee County. Detailed studies were made for possible conservation education centers at the Old Anderson Farm and an outdoor school and group camping at Priggooris Park.

The 13 Acre area in the region, owned by town, city, county or state agencies, with a potential for outdoor laboratory use, add up to an impressive total of 10,767 acres. Lacking in general area for educational use of park lands and an outdoor school has a quality which makes it different from ordinary outdoor living. By combining experiences at an outdoor school and an educational use plan, the period of Oct. 1-March 1.

SPECIAL significance can be attached to the outdoor school at Priggooris Park. Living at an outdoor school has a quality which makes it different from ordinary outdoor living. By combining experiences at an outdoor school and educational use plan, the period of Oct. 1-March 1.

The survey and report are concerned with study of natural world and daily support for a new movement in conservation education—that of using natural areas and supplied open lands as centers for nature appreciation, the study of natural sciences and conservation learning.

The very nature of this setting, the children where will understand and work with real objects, situations, demonstration, and ideas suited to them.

One effective way to meet some problems of modern living is to give serious thought and support to the preservation and educational use of park lands and school sites just for recreation but for learning and enjoyment as well.

John James Audubon said this comment on the value of截至land outdoor experiences: "No amount of book reading will ever make a single soul to know these mountains. Nature's exposure to mountains is better than earthly sands. A little girl in a red coat and blue hat, looking at a raccoon, 'This Is the expression of an animal was gained from a picture in a book.

Drainage History

American farmers since the early days of settlement have drained land. In 1835, the Dismal Swamp Co. was chartered in 1787 by the two states. The canal was opened seven years later. It is a means of transportation and helps to prevent floods.

In 1883, John Johnson of Seneca County, N. Y., brought over from Scotland patterns from which tile 11e was made by hand and laid on his farm. This was the beginning of modern tile drainage in the United States.

By 1860, 1,140 tile factories were operating mainly in Ohio and Indiana. More than 30,000 miles of tile was laid in Indiana by 1889.

The Dumper, drag was developed in 1893 for digging ditches. In 1904 the dragline excavator which has been in use since it came into being. It is a means of transportation and helps to prevent floods.

Until 1860, 95% of all the drains were constructed by hand. In 1863, 80% of all drains were constructed by machines. Powered by a steam engine, was placed on the market.

Your CLINTON COUNTY DEALERS for ZERO Bulk Tanks and Milking Systems with In-place Cleaning

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We congratulate the Clinton County Soil Conservation District for its fine work throughout this past year.

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SOIL CONSERVATION CAN SAVE YOU MONEY!
CONSERVE AND IMPROVE YOUR SOIL

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"Guaranteed to Out Perform"

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We Congratulate . . .
the Clinton County Soil Conservation District for their outstanding work in conserving our soil.

Our Job . . .

is to assist farmers and farming in this area by supplying them the nutrients they need to maintain the productivity of their soil.

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Manufacturers of KLEIN'S SUPER PREMIUM Plant Foods
Proper care for woodlot means profit

By STANLEY BARD

Conservation District

Trees are an important crop on many farms. In all parts of Clinton County the kind of care you give other crops on your farm and chances are it will return a good income. Here are a few pointers on how to make your woodlot a money-maker.

1) Grow high quality timber. Sawmill and lumber companies look for quality sawlogs. Do not cut high-quality growing trees that are 16 inches or under in diameter. Also be sure that choking grape vines and weeds trees be sprayed—2,4,5-T works well.

2) PLAN YOUR timber harvest and sale. Your first step is telling timber in as to what you have. A report of the varieties, sizes and approximate log lengths is a good start. The conservation forester can be of real help on this. Contact the district office for his assistance. Always look the market over ahead of time, because if you cut your trees and then look for a market and cannot find one, you are in trouble.

3) Pruning improves quality. Pruning helps produce large, straight logs that command top prices. Trees at first pruning should be young enough so that branches taken off are no more than two inches thick. At this age, cuts heal fast and leave only small knotholes. prune cuts close in the trunk because stubs at too large a length cannot heal and may let in insects or start to rot. Not more than two-thirds of the total height of the tree, nor more than the lower one-third of the live crown, should be pruned at once. A second pruning may be necessary a few years later to get a clear 16-foot or longer log.

4) ALLOW FOR trim when cutting logs. You can save money by allowing three inches of trim when you cut your trees into log length. Sawmill operators need at least that much extra length when they are scaling your logs. Logs without this extra length are scaled back to the next size. For example, if you cut your logs 16 feet long, they'll be scaled back to 14 feet—a loss of two feet.

5) Use your own timber. If you're planning a new building or if you're going to fix up one of your present buildings, you can cut easily by using timber from your own woodlot. Cutting wood at some crop above 1/3 the trunk you will pay retail for the same quality lumber.

6) TAKE ADVANTAGE of government payments. You can get federal cost-sharing payments of 80 per cent of cost or up to $40 to $300 on various improvement measures. These include thinning young, dense stand, pruning crop trees, killing undesirable vegetation, etc. This 80 per cent, cost-share payment is available to woodland owners of Clinton district at the ASCS office 109 S. Ottawa. The Michigan Dept. of Conservation through the forestry division provides the technical assistance to woodland owners for this practice. The Clinton Soil Conservation District has a demonstration of understanding with the forestry division for this assistance to Clinton district cooperators.

Depleted, eroded soil...

SIGNPOSTS OF TROUBLE AHEAD

To safeguard the future of your farm, investigate the techniques of soil conservation, conserve, maintain and improve your soil with contour plowing, for example, drainage, for wet land, and crop rotation to prevent depletion. And for more productive farming and better farm living put Reddy Kilowatt, your electric servant, to work.

**Quality’ biggest water problem**

By C. R. HUMPHREYS

Water quality protection is the most pressing problem in Michigan: not pollution, not public access, not fish management. It is not a brush fire type of emergency problem—it is a statewide forest fire in terms of magnitude.

The present program of pollution control has been successful, but there is much more to do—especially in the recreational areas of the state, where jurisdiction is not clearly defined and enforcement to withhold or attack is weak or absent. Our pollution control laws and programs do not come into grips with some of the basic concepts of water quality protection—especially in terms of recreation.

LAWS DESIGNED for the protection of public health are not sufficient, stringent or acceptable for the protection of the recreational values of water resources.

These laws were designed to protect public health—saving water and sewage disposal. But they do not protect recreational values. They do not recognize criteria of water quality which are vital to recreational water management. The old well worn and archaic measurements of pollution (biochemical oxygen demand—B.O.D., and temperature) are not servicable tools for modern water quality protection.

THE SEWAGE treatment plant of a large city may remove 95 per cent of the organic matter from sewage but the final effluent is a potent source of nutrients—algal growth stimulants—and also other materials in concentrations high enough to upset the ecological environment of streams and subsequently destroy many of the scenic or aesthetic values.

The professional answer to this problem is more water (from reservoirs) to dilute the effluent and carry it downstream faster. Dilution is not the solution to pollution. It would appear logical to focus on the source of the effluent, not its dilution. Modify the effluent so that it is not a threat to water quality.

In this age and age we can acquire, group by claiming ignorance of better methods of treatment. Everyone gives lip service to protection programs for water but volunteers to set and pay are as scarce as passenger pigeons. Sanitary engineering can provide the method but the public must approve of the need, demand the change and pay the bill.

A SEPTEC test for lake coliforms, if properly designed, installed and maintained can provide a simple efficient disposal unit for sewage and it meets the requirements of our pollution control law.

But—the effluent from this same test field multiplied by the total number of outfalls on the lake provides a massive shot of nutrients for the lake. Its water quality rapidly diminishes with development—algae blooms appear, fish population change, aquatic plant growth is stimulated, the natural filtering process of the lake is geometrically increased in speed, the resource that at one time seemed a threat is destroyed. The lake is doomed to a high quality recreational resource.

Sewage lagoons would prevent this violent change, but their use is limited to areas of low land density and cheap land values.

PRESENT LAWS do not protect high quality lakes and streams. For example, Elk or Torch Lake in these extremely high quality recreational lakes, present laws could be brought into action until it is clear that pollution is proving! Proof of legal pollution is approached as arbitrary matter based upon the time, place, act and the people involved.

By the time legal pollution is evident and can be detected, lakes of this type have already been lowered in quality to mediocre lakes. Water quality has been greatly degraded. If pollution control standards are set, they provide for stopping any additional damage; not for the removal of all damaging effluents. Progress in water quality control is checked by the Big Three: policy, politics, and economics. These factors are as inter-related as a web of social behavior, that the quadrant switch or a single frequently acts off a general alarm and battle station; defensive measures are taken simultaneously to create a impractical impossibility. Under these conditions, the action agencies cannot act... to meet the new and different needs demands. I believe changes in the attitude, in the evitable and invites great resistance, some private owners will claim great benefits, others will claim inreparable hardships. Change will follow a short period of time. Change is a potent source of nutrients—algal growth stimulants—and also other materials in concentrations high enough to upset the ecological environment of streams and subsequently destroy many of the scenic or aesthetic values.

In a country as powerful and situation as Michigan, can we continue to uphold our personal and social standards that we have come to expect? Can we continue to parasitize, or the cost of water, pay the bill. The battle for better quality is going to be fought in the minds of people—the public.

A highly charged emotional crusade, implemented by evangelism of water conservation using aesthetic and tangible arguments, could precipitate drastic changes in current water policy, political and economic interests.

There are three more water items of immense interest in Michigan:

1) Small lakes and tributary streams. Large lakes and tributary streams have attracted most of the pollution control efforts. Small lakes and tributary streams in Michigan are numerous, they remain today in equally good condition and they can be expected to carry as much or more of the future recreation load than the large lakes and streams. The water quality of these valuable surface water resources should be protected today in order to meet the needs of tomorrow.

2) Survey and inventory of ground waters. Comparatively speaking, less attention has been directed to ground waters as to any of the natural resources. Hydrologically it is responsible for or directly related to all surface water. Unfortunately it is a hidden resource and lacks the glamour of other resources, but it must be surveyed and evaluated if surface water management is to become reality.

3) CLASSIFICATION of all forms of water resources. Once the tremendous investment in the inventory of all water resources (lakes, streams, ponds, lakes, swamps, and ground water) is completed, these must be classified and evaluated. Just as for the property tax, this prodigious task is known—physical characteristics, distribution, past, present day use, economic values, compatibility of uses, future use and needs, legal controls, socio-economic controls.

It is apparent that new criteria may have to be formulated and that it is even possible that each class of water resource may have to be evaluated in terms of its own special criteria. The classification and evaluation so important to the ultimate availability should not be vested in a single agency, a single legal, political, social or economic interest group.

Although some social revolution may well be as important to maintain as historic religions, political and industrial revolutions.

"God has lent us the earth for our life. It is a great trust. It belongs as much to those who come after us to use, and we have as much right to share it with them to be able to inreparable hardships, to claim the benefit which was in our power to bestow."—Ruskin

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BELLEVUE

Thursday, February 3, 1966
SCD, Ag Dept. ties now closer

By R. Dake Ball
Director, Michigan Department of Agriculture

With the State Soil Conservation Committee now a branch of the Michigan Department of Agriculture as a result of reorganization of state government, the ties between the Clinton County Soil Conservation District and the department will become even closer than in the past. Relationships have always been excellent, and I know they will continue so.

It is well that we review some of the activities of the Clinton district, which are many and significant.

* * *

THE MUSK RAT DRAIN Water
stock in Clinton County was the first completed watershed project under Public Law 355 in Michigan. The district was a co-sponsor of this project and shares great credit for its forward step.

The district board has been active with its counterparts in Ingham and Eaton counties in assisting the Tri-County Planning Committee in its important work.

The Clinton district also has been active in helping in the development of 27 L. 356 projects on the Maple River, Looping Glass River, and the Cutlass drains watersheds.

THE INTER-COUNTY Drain Section of the Michigan Department of Agriculture was involved in both the Maple River and the Looping Glass River programs. Under state law the director of agriculture or his designate is chairman of all inter-county drainage boards. In this way the department has an active interest in these watershed programs and in soil and water conservation in general.

Tile drainage has long been an important practice of the district.

The district also was outstanding in its support of teachers to the district and providing them with the soil conservation practices report. This has furthered an understanding of and an appreciation for soil conservation.

REALIZING THE Importance of good public relations, the Clinton district leaves no stone unturned in telling the story of sound conservation practices. In May soil stewardship material was distributed to churches throughout the county. Earlier at its annual meeting, exhibits of various Clinton County chapters of the Future Farmers of America were displayed and judged.

The district also was outstanding in its support of teachers to the district and providing them with the soil conservation practices report. This has furthered an understanding of and an appreciation for soil conservation.

** DURING THE PAST year a junior director program has been initiated. These schools will be represented in this. They will... work closely with the district board of directors in planning and carrying out youth activities. Another youth program was a 4-H Club tour to demonstrate the soil conservation practices employed in Clinton County by progressive farm operators. In these and other ways of this program, members of the Clinton County Soil Conservation District employ their best efforts in telling the story of soil conservation and in practicing what they preach.

Water consumption in the United States is the key to the American standard of living, reports the National Wildlife Federation. A large paper mill requires 50 million gallons of water per day. It takes 18 barrels of water to produce a barrel of oil. 15 gallons of water to produce a gallon of aviation gas. 209 tons of water to make a ton of steel.

By B. Dale Ball
Director, Michigan Department of Agriculture

START OF A TILE DRAINAGE SYSTEM

Robert Buruszewski (right), civil engineer of the US Soil Conservation Service, and Orville Beachler, soil conservation technician, discuss design and layout of a tile system and pump drainage for the Reginald Stevens farm in Greenbush Township. Related story on page 10-C.

DONT LET YOUR LAND GO...

Soil Conservation today can keep farm productivity going "down the drain" tomorrow! Through tested techniques, you can conserve and improve your land, thus helping to assure continued profitable production. The prosperity of your farm is vital to the future of everyone in Clinton County... one more reason why we are eager to help and serve in your farming needs.

We Congratulate the Clinton County Soil Conservation District and the farmers of this area for their outstanding job in soil Conservation. Leadership in this cause is truly deserving of the highest awards.

Our Aim is to Serve You Better...

Let You Realize More Profit Through the Co-operative Way

Spring is just around the corner and there are just a few more weeks to get ready for it... but why not come in now and get lined up on the things you will be needing.

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Whatever Your Farm Needs... See "YOUR PARTNERS FOR PROFIT"

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Phone 224-2381
Local industries big help in conservation

Conservation is everyone's business, according to Clarence Manning, secretary of the Clinton County Soil Conservation District—industry's as well as agriculture's.

An area industry, the Grand Ledge Clay Products Co., has made conservation its business with the production of drainage tile and sewer pipe that has helped drain land for Michigan farmers.

The company was started in 1906, with Frank Taber as manager, for the purpose of manufacturing conduits for underground telephone wires. Prior to this, from 1890 to 1893, Taber managed a sewer pipe and drain tile plant on the present site of the American Vitrified Tile Co. across the road from today's plant. Universal American bought them out in 1893.

THE COMPANY was incorporated the same year as the Grand Ledge State Bank.

Bruce Decke, the grandson of the first company manager, Frank Taber, is the present company manager. He became manager in 1949, following the death of his father, Fred W. Decke.

Decke began working in the plant in 1932, following graduation from Acme Business College in Lansing, at a wage of 35 cents an hour.

He said that future plans anticipate supplementing the 12 gas-fired bee hive kilns with a tunnel kiln installation. The steam source is being automated with a gas-fired boiler, which will re- See INDUSTRY, Page 20-C

DECKE BEGAN working in the plant in 1932, following graduation from Acme Business College in Lansing, at a wage of 35 cents an hour.

Employing 80 people, the company is today in the midst of a modernization process, Decke said.

They look tough. They are tough! They're a rugged new breed— the biggest, most powerful tractors Massey-Ferguson ever built. Totally new advanced hydraulic system provides maximum traction, fingertip control over all types of implements. The easiest, most practical shift-on-the-go transmission: MULTIPOWER! Exceptional economy and many other features you will want!

Good Farm Machinery Pays You Dividends...

We salute the farmers of Clinton County for their outstanding conservation job and support the Clinton County Soil Conservation District.

Clinton Tractor Sales

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When spring rolls around... you will want farm equipment that will be ready to go and will continue to go economically without costly delays. We have a good selection of new equipment and used equipment in tip-top shape, or we can repair yours now so that it will be ready when needed.

The World Will Know Us By Our Soil

Yes, our strength is in our soil...the responsibility for this strength is in the hands of our Soil Conservation District and our farmers. We congratulate the farmers of this area for their forward step in preserving our strength...the fertility of our soil.

Let Us Assist You in Your Yearly Conservation Programs

Get Your Seed Now

Badger Brand Alfalfas

Certified Vernal Certified Ranger Grimm-Alfalfa

Clover

Mammoth Sweet Clover

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June Pasture, Flow Down Mixtures

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All Seeds Are State Tested Mixing and Inoculating Service

Mathews Elevator Co.

Fowler Phone 582-2521
Soil survey maps soon available

By GLENN BEDELL
Soil Scientist
Soil Conservation Service

People of Clinton County will soon have access to soil maps that will be a major benefit to them. Bath, Dewitt, and Water- town townships were completed in 1965 by the Soil Conservation Service of the US Department of Agriculture.

Cost sharing on the project is the Tri-County Regional Planning Commission, the county board of supervisors and Michigan State University.

INFORMATION about the soil is becoming more and more important to everyone, whether he or she lives in the open country, small town, suburbia, or the city of Lansing. Our homes are built on the soil. The kind and amount of clay influence the stability of the soil for footings, streets, walks, and garden areas. Cracked walks, plumbing that pulls apart, doors in houses that were fitted right but after a time are difficult or impossible to open and shut, are often soil-related problems.

Soil maps show the location and extent of each kind of soil. The published report will explain how to use the maps. What can be done to overcome certain limitations in use? Anyone who owns land or who makes decisions involving land will find the soil maps useful.

SOIL MAPS are used by farmers as they develop soil and water conservation plans with the help of soil conservation technicians. Regional planners are using soil maps to help develop suitable comprehensive land use plans. Delta Township in Eaton County was the first charter township in the Lansing area to use the Tri-County Soil Survey maps in their preliminary comprehensive development plan.

Of concern in Delta Township, as in many other townships, are critical questions regarding soil characteristics. For example: 1) Does the soil afford suitable bearing capacity for buildings? and 2) If central sewer and water lines are not available, does the soil allow successful operation of individual systems?

IF SEPTIC tanks are contemplated, the soil maps will show areas of slow permeability. Careful soil determination should be made to service lot sites which are sufficient to accommodate the septic tank and the field that can provide successfully absorption of the septic tank effluent, and will give protection to the water supply. Where pressures warrant correcting for soil limitations, the data is used to determine needed corrective measures.

Soil maps are used in making excavation cost estimates, determining material specifications and backfill instructions for underground services (gas, water, and sewer). Parks and recreation departments use soil maps in selecting park sites, locating facilities on the sites, and estimating development costs.

Good teachers cost more, but poor teachers cost most.

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Your Soil Is Your Livelihood!

Will It Prosper?
It's in Your Hands!

Your soil is your livelihood and what you know and do about nutrients your soil needs will make the big difference in the future productivity of your farm. See Zeeb Fertilizers today... see how Zeeb "quality" fertilizers, good farm management, and soil conservation practices can assure you of continued profitable production.

Now is the time to be thinking of your spring fertilizer needs and there are still a few weeks to get ready, but why not come in now and get lined up on the fertilizer you will be needing and save with our...

"Early Season Discounts"

Your cash income from your farm depends on the productivity of your soil. Protect both by keeping your soil well supplied with the nutrients it needs.

Our Aim Is to Help You Keep Your Soil in Top Productive Shape

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  • It mows - it conditions - it windows (optional). THE EXTRAORDINARY NEW Hay MACHINE.

- Hayliner Balers
  • Smooth dependability, advanced design from NEW HOLLAND the world’s first and largest automatic baler manufacturer.

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  • Extra long sickle stroke . . . means faster, cleaner cutting . . . mow up to 7 acres an hour! Also low-cost conditioner adapters available.

- Rollabar Rakes
  • Offset wheels mean cleaner raking! You get more hay in every windrow! Performance features that mean faster, cleaner, trouble free raking!

- Conditioners
  • Complete conditioning by crusher rolls can cut curing time in half.

- Manure Spreaders
  • Load easier, spread faster with NEW HOLLAND wide-bed spreaders. Steel sides guaranteed for the lifetime of the spreader . . . replacement free of charge on any sides that rust out.

- Grinder-Mixers
  • Easily handle up to 3 tons of hay, grain, ear corn, concentrates at one time! Grind high-moisture corn; easily delivers feed on the move into feeding troughs. Advanced features you’ll want!

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Phone 224-4661

Take pride in soil district

By BLAIR WOODMAN

New, 8th District

The Clinton County Soil District has long been recognized as one of Michigan’s most progressive districts in forwarding soil and water conservation work in Michigan. In looking back on the achievements in the district in 1965, the directors, members and citizens of the county should do so with pride and satisfaction.

"Conservation farming" means planning each acre for its best use. They have contributed to the improvement of Michigan land through promotion of soil and water conservation practices and the wise use of natural resources.

I AM SURE that it is core pro-

The inclusion of the Maple River Watershed as a part of the Grand River Basin Development program is to continue, when the improvements are made, in better water and flood control. The districts are to be commissioned for working in this direction with other orga-

nizations that support the Clinton County Soil Conservation District. The Grand Ledge Clay Products Co. is just one example of the many industries and organizations that support the Clinton County Soil Conservation Dis-

Some of the products manufactured at the plant are flue liners, drain tile and sewer pipe. The plant manufactures only sewer tile.

Today there are only two sewer tile companies in Michigan both are in Grand Ledge. The older one is a branch plant of American Vitrified Tile Co.

The Clinton County Soil District has long been recognized as one of Michigan’s most progressive districts in forwarding soil and water conservation work in Michigan. In looking back on the achievements in the district in 1965, the directors, members and citizens of the county should do so with pride and satisfaction.

"Conservation farming" means planning each acre for its best use. They have contributed to the improvement of Michigan land through promotion of soil and water conservation practices and the wise use of natural resources.
... Use Heat Lamps Safely

Last year several barns and other buildings were lost in Clinton and Gratiot counties through improper use of heat lamps. These losses could have been avoided if the following procedures had been used in installing the heat lamps. Heat lamps are safe when used in a safe manner; dangerous when used otherwise.

Proper Heat Lamp Installation Can Save Your Building

1 Right Circuit

Circuits serving infrared heat lamps must be protected by circuit breakers rated at not more than 20 amp. They should also be checked and approved by a competent electrical inspector. For ordinary farm brooder or farrowing house circuits use no. 18 A.W.G. wire protected by fuse or circuit breakers rated at not more than 20 amp. The maximum load for any one circuit should not exceed 80% of its capacity. seven 250-watt lamps or a total of 1750 watts. Never use a larger fuse to permit the use of extra lamps. Where more than seven 250-watt lamps are to be used, divide the load into separate 20 circuit circuits.

2 Proper Cord

An appliance cord that provides ample protection against moisture and heat is required. Cord and receptacles tested by Underwriters' Laboratories have a terminal temperature of up to 105° F., whereas the National Electric Code limit for rubber insulation is 25° F. above these temperatures. Ordinary rubber, plastic or brass receptacles deteriorate and develop hazards due to the excessive temperatures. Special techniques are also required in connecting this cord to socket terminals. The foam asbestos sheathing in 4 lamp units requires high temperatures and the terminal connections from strain and mechanical injury. Means for protecting the insulation is to use rubber jacketed asbestos insulated cord (HEA) must be used. A few dollars for the right cord and receptacles will make sure you will have heat lamps that work.

3 Chain Suspension

Suspend the heat lamp unit securely by chain, wire or bracket. It should never be hung from the cord. Both the lamp and cord should be high enough or otherwise protected so poultry or animals cannot contact it and never closer than 18 inches from the litter or combustible material. A chain hanger provides a convenient way to adjust the height recommended by agricultural colleges for various brooding uses.

4 Heat Resistant

A heat resistant porcelain receptacle of the keyless (switchless) type should be used because of the high base temperatures of the lamp. Ordinary rubber, plastic or brass receptacles deteriorate and develop hazards due to the excessive temperatures.

5 Safety Guard

Heat lamps should be protected from moisture and mechanical injury by means of nonremovable guard with a reflector type top. The guard should be designed so it will hold the lamp a safe distance from the litter and other combustible materials. The guard also facilitates handling and safe storage or transportation of the unit. The lamps used produce high light and mechanical injury, surface scratches and they should not contact cold objects when hot.

Serving

GRATIOT and CLINTON COUNTIES And Outlying Areas

... Safe Guard

... Unguarded Lamps

... Guard Protects

Unprotected lamps are easily broken or damaged by mechanical injury and water breaks flat glass light bulbs. You can also get a burn from a hot lamp.

... Guarded Lamps

The hazards of high temperatures at the base of heat lamps is not generally appreciated. If electrical insulation deteriorates, shock and fire hazards develop.

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Soil conservation got big emphasis in ’30s

By ALLAN J. COLLINS
State Conservationist
US Soil Conservation Service

Back in the “lean thirties,” our农民s were experiencing the worst economic depression. There was maladjustment on small farms. Millions of people were unemployed in the cities, the suburbs and rural areas. The farm population had been hit, too. Farmers were being foreclosed by the thousands. Prices received for farm products were well below the cost of production.

To add to the farmers’ woes, severe droughts had been occurring annually in many of the states. Other states had experienced serious floods. The devastation of these forces of nature had critically damaged millions of acres of productive land over the years.

BEYOND THIS, World War I had destroyed American agriculture. Food and fibre, and this took its toll in our soil resources. In sections of the Great Plain states, a dust bowl had been formed. Millions of acres of soil from the farm to the Kansas, Nebraska and other states of the states.

The farmer was one of industry’s best customers, but he was broke, industry suffered. The main in the shop suffered, and millions of skilled technicians could not be paid more than toil and their humble thumbnail and tips.

The lights in the White House, the halls of Congress, and the numerous braces offices were on night after night. A mass of bills hit the Congress each day designed to meet the impacts of such things as closed banks, labor strikes, bankruptcies, unemployment, bread lines, and poverty on the farm.

OUT OF THIS mass of legislation passed by the Congress in 1933 to keep the great American Dream alive came Public Law 46. The law empowered the secretary of agriculture to create an agency to be known as the Soil Conservation Service. This job of the agency was to develop a national program of soil conservation.

This was no small task. Masses of soil erosion had been doing more over a century. The productivity top layer of soil had been reduced several inches from the erosion process, an eighth of our farms. To correct the problem the American farmers would have to change some of the conventional methods of working the land and adopt methods that were in harmony with nature. For example, plowing land up and down sloping fields created erosion. Each furrow in the soil acted as a channel to hasten run-off water, or loss of productivity was carried down the slopes. On the other hand, using terraces, farm crop production was sharpened dramatically and costly to the landowner.

THE PROBLEM of soil erosion was war had been over, but some small soil conservation districts had been planned in the 30’s. Some did, but most farmers sons why districts have remained so strong over the years? There may be many reasons for their success. They have been productive, effective, and truly democratic. They have enjoyed popular support.

The districts have provided helpful services to farmers and other landowners by protecting the land against the forces of sheet, gullies, wind erosion and others. The creation of this new science and mechanical method. The job has a basic approach. The treatment used to control soil erosion is determined by the landowner and soil conservation technician. Such practices as contour strip-cropping, windbreaks, terraces, swales, ditches, drainage, irrigation, reforestation, and others are applied in areas where necessary. Attention is given to erosion-prone, pasture, forest and wildlife areas.

The demonstration work started under the Soil Erosion Service was continued by the Soil Conservation Service. The demonstration areas, for the most part, were continuous small watersheds. Farmers, agriculturists, by technicians of Soil Conservation Service, installed needed conservation practices. It was hoped farmers would visit these demonstration projects and return home and apply conservation practices in their land where needed.

Soil erosion is not a discovery of the 30’s. There was a problem in the 30’s. Land tillage goes back many centuries. But it can be said American agriculture to the largest extent to the problem in the 30’s. Land bare of its top soil, deep, ugly

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Backup lights, 2-speed ac/e, windshields, windshield washers, inside and outside mirrors, oil, fuel and air filters.

6-ft. Box - Big 155-HP In-line 6-cyl. Engine - Seat Belts

COMPARE This ½-ton Pickup at Cain’s!

COMPLETE as low as 

$ 795

We congratulate the Clinton County farmers for their soil conservation practices assuring their continuing valuable contribution to Clinton County.

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Thursday, February 3, 1966
A water shortage?

Some of water and adequate charges for it to end waste can assure the United States ample water in the future regardless of population growth, writes Wolfgang Langewiesche in a January Reader's Digest article, "What Water Shortage?"

"The water shortage is a phony," he says. "The mounting need for water comes mostly from its being sold too cheaply and therefore recklessly wasted; it will stop the moment that people are charged for water what it costs.

"On the other hand, the physical supply of water is practically unlimited, with the techniques we know—some of them new—we can produce no end of water," he adds. "This may be the biggest thing in water management since the invention of the drain," says Langewiesche. "It opens up immense new storage space—cheaply."

"Meanwhile," he argues that each city clean the water that it has used, and use it over. "Today, for instance, we are now using such water for heating and swimming and Canals, Iowa, in a drought once used such water for several months for all purposes.

"It seems certain that reuse of city water is coming," concludes Langewiesche. "It is by far the cheapest method to get enormous quantities of the best water. Since the vote is actually there, at the city, you can spend lots of money on cleaning it and still come out ahead."

The US Soil Conservation Service provides the bulk of the technical assistance, but it has no control over the governing body of the district or the cooperating farmers, the application is informal, and it is not binding on the applicant. He may carry out as much conservation measure on his land as he sees fit and over an unlimited period of time. He may terminate his program at any time without a penalty of any kind."

"While the organization and operation of districts might be sold here to many people, there are still a few "doubting Thomases" who are blocking the organization of districts in a few non-district counties in the states."

"Over this broad land of ours, some 18,000 or more dedicated soil conservation district directors are operating and administering nearly 3,000 districts and assisting over 3 million landowners—and they do this without pay. Here again is another good reason why soil conservation districts are here to stay. A big job still lies ahead, to be sure, but today we have the experience and the "show-how" to meet the task."

STOP STREAM POLLUTION
with a Correctly Installed
DOUBLE Septic Tank and Drain Field

We Build,
Install and Clean
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We Also Specialize in the Construction of
Grade Stabilization Structures
Erosion Control Structures
Bunker Feeders

Thursday, February 3, 1966
Clinton County News, St. Johns, Mich. Page 23 C
To check on the quality of the tertiary treatment effluent, a second aquarium (Tank No. 2) is connected to Tank No. 1. This second tank contains a bottom layer of two inches of gravel and several species of aquatic plants such as Vallisneria, Potamogeton, Elodea, and Ceratophyllum. These plants were collected from Lake Lansing and the Red Cedar River. In addition, pairs of goldfish were placed in the tank. The idea was simply to find out whether such a tertiary treatment would be effective enough to maintain normal aquatic life on a long-term basis in the treated waste water.

90% of the data shows this to be the case. The first pair of goldfish produced offspring which grew up, matured and produced offspring and now the fourth generation of guppies is growing in the tank. They exist entirely on the living food produced in the tank. The aquarium has maintained itself in an excellent condition over the five months since it was connected to Tank No. 1. The only thing that has had to be done is to remove excess plant growth and the excess growth of guppies. The plant growth is so luxuriant that relatively large amounts have to be taken out every two to three weeks to prevent crowding.

After these encouraging results, I became a little more ambitious last summer and increased the scale of the experiment from 15 to 500 gallons. The first 200 gallon tank (Tank A) has essentially the same equipment as its smaller counterpart, Tank No. 1 except for a block of plastic foam which separates it into two compartments. The pre-treated sewage is fed continuously into the first compartment which is larger and which contains an arrangement of fiberglass screening. Into the second compartment we placed three young fantail, a minnow, a denison and a sunfish.

In other words, instead of guppies, representatives of Michigan fish life were now used. These fish have now been living in this tank for four months and they are doing fine. Again as in the first tank a second aquarium (Tank B) contains essentially the same equipment as its smaller counterpart, Tank 2, a two-inch layer of gravel and a good variety of aquatic plants. There are no guppies in this tank but three young goldfish which were caught in Lake Lansing and in the Red Cedar River, a green sunfish, a bream mouth bass, and a minnow. Despite the fact that these fish do not receive any outside food and live in water that has been treated, they show a healthy growth over the five months they have been in the tank.

The experiments demonstrate that the biological recovery of waste water is feasible on a small scale. So far, no large scale experimentation has been planned due to the very limited amount of funds that have been made available to the project. However, it is obvious that this tertiary treatment process should be considered for a large scale application. Certainly there are some difficult problems connected with such an attempt, not even taking costs as a first consideration.

AS MENTIONED before, our data shows that the tertiary process is capable of removing 85 to 95 per cent of the pollution load remaining after treatment by the activated sludge treatment process. However, it is measured to be between 80% of biochemical oxygen demand. The analytical data also show that the tertiary treatment effluent, even though it is a clean and odor-free water, capable of sustaining plant and fish life, still contains relatively high concentrations of atrazine, DDT, heptachlor and polychlorinated.

It appears to me, however, that from another point of view the tertiary effluent can be utilized as a plant nutrient solution which should be extremely valuable for irrigation purposes. It is conceivable that in the future all our secondary waste water treatment plants would be implemented by a series of ponds producing edible fish and a sparkling clear effluent which could be used for irrigation purposes in greenhouses, gardens or farms and in forestry.

As far as the economics of the process are concerned, nothing much can be said at this time, since up to date it has been tried only on a very small scale. However, if we have enough money to shoot people to the moon, we also should have enough money to solve our water problems. It may even be useful to remember—there is not a drop of water on the surface of the moon.

This is River Laboratory at Michigan State University where the tertiary treatment experiments are conducted.
WATER PLAYS an Important role in our lives. The average person uses over 100 gallons of water each day. In addition to domestic uses, vast amounts of water are used for industry, irri-
tigation, livestock, recreation and wildlife. Water shortages have developed in many parts of the nation and are serious in parts of Michigan. It is not how much precipitation we get, but how much we keep that is impor-
tant. Penetration into the soil, not just precipitation, determines how much water is available for use.

An interest and concern by all segments of society can assure an adequate supply of soil and water resources for the future. Whether or not they will assure this supply depends on how hard they work at it.

EVEN TODAY in the State of Michigan there are examples of "too little - too late." Desires to use as the result of im-
properly locating school sites, airports, fields, water lines and reservoirs has cost Michigan taxpayers thousands of dollars.

Consideration of available soils information and other services would have prevented this.

Michigan soil conservation districts have done a tremen-
dous job in combat these prob-
lems. They, using the technical, assistance of the Soil Conserva-
tion Service, can and will pro-
vide guidance in wise land use and adequate conservation so that the future of Michigan's soil, wa-
ter and plant resources can be safeguarded.

Inflation: When something that cost $10 a few years ago now costs $15 to fix.
Lime use dropping, but soil tests show continued big need

By R. L. COOK
Soil Science Department
Michigan State University

In 1946, Michigan farmers applied liming materials equivalent to a million tons of limestone, in 1958, they used less than one-half that amount, and in 1964, only 429,571 tons. Since 1946 the same farmers stopped all use of commercial fertilizers from 331,467 to 805,226 tons. Clearly, the drop in lime use is not due to lack of purchasing power or to indifference regarding crop production.

Soil tests show there is still a need for much more lime each year than has ever been applied, in fact, the leaching and crop removed loss each year from our cultivated acres (20 million in the state) is much more than that applied in 1946 or in any two years since 1945. Thus, we know for sure that there is still plenty of lime for Michigan and the state needs more lime each year.

LIME IS A MUST in any soil conservation plan. Ohio experiment results show that two years of alfalfa will off-set the soil which had not grown alfalfa during a 10-year period. This could not happen on strongly acid soil because it would be impossible to grow alfalfa of sufficient quality to make this kind of improvement.

Fertilizers exert their maximum influence on limed soil, in an acid soil the phosphorus from the fertilizer sinks out with iron and aluminum minerals to form insoluble compounds, unavailable to the plants for many years. Liming to bring the soil pH up 0.4 will prevent such tie-up and make this kind of improvement.

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LIME USE IN Clinton County has increased from 5,482 tons in 1959 to 14,039 tons in 1964. If some of this lime was applied on Your farm, Did you use one acre, or has it been lime in 1946, there is only one answer—there have been lime in 1946. There is only one answer—we really have been forgetting lime. This we cannot afford to do!

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Soils should be tested. Use a sampling tube to make 20 cores from the areas to be limed. Mix the cores in a clean pail. Include in one sample only cores from what appears to be uniform soil. If the field is larger than 10 acres, it is well to take two samples.

**Lime use...**

Continued from page 26-C solve the limestone from our soils. In the process it leaves behind the hydrogen which makes the soil acid. As we can readily see, then, the chief weakness of soil is that it lacks calcium, the chief ingredient of limestone. Other beds plant foods such as magnesium were likewise washed away and may also be lacking.

THE WAY To remedy this situation is to apply agricultural lime, either marl or limestone. If magnesium is also lacking, dolomitic limestone is needed. The soil test will tell you if the lime is needed. 

(Continued).

**SCDs told to coordinate programs.**

Representatives of Michigan soil conservation units were told last February that districts—and entire regions—with similar goals, should combine and coordinate their programs if they hope to meet the demands of the future.

Speaking at the annual meeting of Michigan Soil Conservation Districts and National Soil Conservation Service and chairman of the special committee on Northern Great Lakes Programs.

IN AN ADDRESS at Kellogg Center, Cohee said that the greatest challenge soil conservation districts face is to expand their horizons of activities through teamwork planning of broad land use.

He also called for instructing the public to the importance of soil and water conservation in light of increasing pressures on natural resources.

**Budgets are tight.**

HE SAID THAT while soil conservation agencies have built a "good image" with the public for their work in preventing land degradation and misuse or waste of water, the public often feels that cost of the program—especially the agricultural aspect—are too high or unnecessary.

Cohee rejected the frequent urban belief that "agriculture is having it too easy" and stressed that soil conservation officials are striving desperately to protect the very land that are making food products today the best bargain in the history of our country.

**CONSERVE Your Building $$**

Money invested in farm buildings represents a sizable investment. Protect this investment by making constant repairs and investing in new building needs. For years we have served this community with quality building materials, and this service we plan to continue.

**CONGRATULATIONS**

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**We Can Help You**

**CONSERVE Your Farm Dollars**

Yes, soil conservation starts with the soil. Making the best use of the potential productivity of your soil will give you the greatest dollar return.

**Safeguard Your Future—Practice Good Soil Conservation**
fresh. America will soon run dry, and we may need to convert salt water to fresh. Unless we can find an economical way to make freshwater, the maximum fresh water supply will be 600 billion gallons a day.

for efficient CORN PRODUCTION
Join the Clinton County Soil Conservation District... and the More Than 600 Farmer-Cooperators
Use Seed from the FARLEY SEED FARM
Producers of Michigan Certified Hybrid SEED CORN
Available at Most Clinton County Elevators
H. B. Farley & Son
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Blinding topsoil holds tile in place

By LLOYD B. CAMPBELL
US Soil Conservation Service

Much has been written about BLINDING. By blinding we mean to place topsoil over the tile immediately after laying. This will stop water from entering the tile and hold the tile in place in the event of rain, and when backfilling, to make sure that light solid material may not enter the gravel. One way to fix this is to put a base of straw, hay, sand, or corn cobs. Another way is to put a layer of a suitable material over the tile before replacing the soil, typically to insulate the tile from the ground. But especially is this the need for this treatment when the subsoil is light or when it contains materials which cause sealing of the joint. What straw is best because it remains in the trench longer than raw straw. Three or four inches of loose straw is sufficient.

With straw around the tile, the joint will not leak. However, in some degree of porosity is needed throughout the depth of the trench. The more porous the material, the more needed is it. If not, some extraneous material, such as gravel, sand, or grit, is added to make the joint sufficient. In addition, water pass freely into the tile after wheat harvest and will use a side-drain pipe to a cut of 6 inches in diameter. A snug fit is better in silty clay loam and sandy loam, while the joints will not seal over. However, a degree of porosity is needed in the material, and it is seldom necessary to use it continuously along the trench, but only at intervals. In this case it is seldom necessary to backfill material along the full depth.

MARY CLINTON County Soil Conservation District cooperators install drain tile after wheat harvest and will use a side-drain pipe to a cut of 6 inches in diameter. A snug fit is better in silty clay loam and sandy loam, while the joints will not seal over. However, a degree of porosity is needed in the material, and it is seldom necessary to use it continuously along the trench, but only at intervals. In this case it is seldom necessary to backfill material along the full depth.

These artifices are not employed to be permanent in themselves, rather the use of porous backfill simply hastens the movement of soil water to the tile for the time being, thus assisting the crop, insulating in earing and maturing in opening up the soil to give it natural porosity. Draining should improve the soil structure. Improved soil structure in turn improves drainage. A conservation rotation, involving deep rooted legumes, improved structure, improved structure of the soil increases the ability of the tile to lower the water table in the field. You can plant your crops earlier than without a good tile system.

21 cooperators to receive signs

Emended "cooperator" signs will be awarded to the following farmers at Saturday's SCD annual meeting for their outstanding accomplishments in soil conservation during the past year:


CONSERVATION PAYS OFF TO YOU!
Your Cash Income from Your Farm Depends on the Productivity of Your Soil
Practice Tried and Tested Methods of Soil Conservation

- Plant only the best in seeds
- Build soil with lime and fertilizers
- Rotate crops—harvest in time
- Work at Soil Conservation as an all-year... every year project
- For your farm needs see us.

FARMERS' CO-OP ELEVATOR
Phone 582-2661
FOWLER, MICH.

Lockwood extends his congratulations

To the Directors of the Clinton County Soil Conservation District:

I wish to extend my sincere congratulations on the completion of another successful year of cooperation. You have for some time made an outstanding contribution in the area of preserving our soil, natural resources. The public has finally realized that we must not waste or pollute the water within our state. Your continued efforts at seeing that our water is used in the best manner possible will be appreciated by everyone.

I am sure that with your help we will be able to conserve the water we have at a given time of the year. This water will then be available for irrigation, recreation and other beneficial purposes when needed. The conservation of our soil and conservation of our natural resources will be appreciated by everyone.

Again, my congratulations for a job well done.

Sincerely yours,
EMIL LOCKWOOD
State Senator-30th District

* * *

EMIL LOCKWOOD
State Senator-30th District

* * *

Aimee Lockwood

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The greatest lightweight of 'em all is here. Little as 10 lbs. of fast-cutting, dependable easy-handin' McCulloch. Will tackle any cutting job you've got around the farm, cabins or right at home. Complete with 12" cutting team, finger clutch, weatherproof glass blow guard, oil tanks and the new, streamlined design that won't hang up in the best manner.

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Wildlife: A crop from the land

BY EDWARD J. MCKULA
Michigan Dep. of Conservation

Says soils need lots of lime

Despite the fact farmers have available through the Extension Service, the increased adoption of agricultural research findings in the field of farming, modern equipment, new cropping techniques, and the general adoption of agricultural research finds is the productivity of some of the nation's farms in the past few years.

Some farmers have adopted these changes, but the nation's assets, Franklin Delano Roosevelt sets but the nation's assets, Franklin Delano Roosevelt.

"If a man farms his land to destroy not only his own assets, but the nation's assets," he destroys not only his own assets, but the nation's assets, Franklin Delano Roosevelt.

The use of fertilizer nutrients, both liquid and dry, has doubled since 1952 and this increase has not kept pace with the enormous increase in farm production. Despite the fact farmers have increased production, there may be some concern that our better agricultural lands are being wasted. The waste of the soil or trees, our better agricultural lands.

In a recent presentation before the Agricultural Research Institute, National Academy of Sciences, Lewis B. Nelson of the Tennessee Valley Authority said: "Agronomists recognize and promote the use of lime, not as a source of lime, but as a source of lime. The use of lime is not practiced to the extent needed, even though cost sharing is available through ACP. Estimated yearly need has increased from 10 million tons in 1954 to 27 million tons in 1964, but the value in reducing aluminum toxicity and in generally improving the root environment apparently is not fully appreciated by the American farmer.

"LIMING IS NOT practiced to the extent needed, even though cost sharing is available through ACP. Estimated yearly need has increased from 10 million tons in 1954 to 27 million tons in 1964, but the value in reducing aluminum toxicity and in generally improving the root environment apparently is not fully appreciated by the American farmer.

Some of the reasons given for failure to use the needed lime are:

1) The returns from liming are lower and less striking than from fertilizers;
2) shifting crops to those more tolerant to acidity; or
d) dependence on liming.

"ALTHOUGH LIME usage has increased from 10 million tons in 1954 to 27 million tons in 1964, this increase has not kept pace with increased fertilizer usage. The use of fertilizer materials has doubled since 1938 and this has contributed mightily to the productivity of some of our better agricultural lands."

Nelson added, "Increasing acidity of surface and subsoils as a result of shifted-up agriculture use practices to become a major problem, possibly threatening the productivity of some of our better agricultural lands."

"Of a man farm he lived to the waste of the soil or trees, he destroys not only his own assets, but the nation's assets." - Franklin Delano Roosevelt

What is good habitat for farm game? Cover and food are the most essential ingredients in good habitat. Good winter cover, nesting and escape cover, and an ample winter food supply are all necessary tools, just as fertilizers, plowing, or other practices do in providing a good seedbed for a crop. Broiling or grazing, small tile area which are left undisturbed, destroyed hay mowing in the early summer, the protection of farm woodland from grazing and the tending of some standing grain throughout the winter are a few of the features that will need more wildlife on the farm.

IF IT IS REALIZED that the economies of farming dictate practices which are not good for wildlife. If every farmer would dedicate a small portion of the land to provide good habitat for wildlife, then we would have gone a long way toward ensuring a continuing good supply of farm game for future generations.

Any farmer seeking aid or assistance in providing good wildlife habitat, integrated into present farming practices, can do so under the US Department of Agriculture ACP Wildlife Program. For further information contact your ABC office or the Michigan Department of Conservation, Game Division, Lansing, Mich. 48907.
First in Michigan!

The new and revolutionary
“BIG 10” C & B SILO

WHAT'S SO SPECIAL about the NEW "BIG 10"* C&B SILO

It's the HYDRO-PRESSED Concrete Stave—strongest and most durable silo ever produced in the United States... silos are produced under many tons of hydraulic pressuring the perfect ratio of water and cement, never before possible in the dryamped or wet cast process. Can you be expected to invest in any other silo?

*Designed and Engineered to Outlast 10 Generations.

Gordon Howard (left) and Eugene Havens, cooperators of the Clinton County SCD, look over their fine stand of 160 acres of rye grass cover-crop. Their corn fields received one and a half pounds of Atrazine band sprayed; this rate of application allowed the cover crop to be grown between the corn rows. Howard and Havens operate a 420-acre livestock farm in Greenbush Township.

Soil conservation depends on you... act now!

WE CONGRATULATE — the Clinton County Soil Conservation District and area farmers for their excellent job in conserving the soil.

Assure continued profitable production by conserving, maintaining and improving your land through crop rotation, to prevent soil depletion; contour plowing, for sloping sites; drainage for wet land, and other tested techniques.

Pre-Season-Discount on All Fertilizers! PAY FOR BULK—WE STORE FREE

Whatever Your Fertilizer Needs — We Can Supply You

ORDER: YOUR SEED OATS TODAY!

WESTPHALIA MILLING CO.

Preventing water waste a growing national problem

Preventing water waste is receiving more attention each year. The severe droughts we had last summer in our area has made everyone aware of the water shortage.

In agriculture, water is very important, not only for human use but for livestock and crops. For crops it must be available during the growing season; this past summer was a good example as we received little or no rainfall in July and the first half of August.

GOOD conservation practices are: green manure crops, winter cover crops, reforestation, permanent vegetative cover, field strip cropping, trees and shrub planting for erosion control and windbreaks. These conservation practices prevent water runoff by holding the rainfall, allowing it to soak into the soil; this in turn helps keep the water level up in our soils. Any of the above conservation practices are things the average farmer can do to save water. This past summer the water level was so low many farmers' wells went dry.

Water problems exist nation-wide and are not confined to any one area. Last summer New York City had to ration water and they have taken steps to improve their storage and facilities.

IN ORDER to reduce waste, far more is needed than better maintenance of water facilities, improvements in metering, and other admittedly important techniques for conserving water in metropolitan areas. In addition, full-scale effort needs to be made to put some reasonable checks on the accelerating rate of water consumption.

For example, research is needed into the improved design of water using equipment of all kinds from air conditioning units to plumbing fixtures and all programs to halt the pollution of streams, rivers, and lakes must be most accelerated.

A REDUCTION in water waste will not solve our water problems alone; there will have to be a joint effort made by everyone to solve the water problem. Regions may have to develop large storage and reservoir sites.

MR. FARMER:

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A GOOD PROGRAM OF SOIL CONSERVATION is Important to the Farmer of Today

The above picture, taken by the Soil Conservation Service, reveals the complete tile spacing and layout on Blount loam soil at the Harold Benson farm, R-3, St. Johns. An area of 30 acres is drained through the use of indicated mains and laterals. Four rod spacing was used.

Tile Drainage is Important to Conservation Equally Important is QUALITY DRAIN TILE.

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