

Terraced waterways pay off. This one shows the discharge water following a flash rain. Notice how it retards and spreads the water over a wide area. Little washing here.

### Youth of County Take Deep Interest in Conservation

ing interests of Nebraska 4-H ships given to eight national win-Club members is soil conserva- ners. Sectional winners receive

ing all parts of the state. The 4-H soil conservation clubs in southeast Nebraska are particularly flourishing.

One of the oldest, if not the oldest, 4-H clubs specializing in Enthusiastic Farmers of Gage county. Lancaster county has its soil conservation club: Otoe county two clubs -the Soil Savers and the other unnamed. The Junior Soil Savers are the club for Pawnee county, and in Richardson county, the conservation conscious.4-H memters call themselves the Soil

the value of the soil, to learn him; it's a way of living."

members then are urged to make a map of the farm as it should be, suggesting what land should be cropped and what pastured, where windbreaks should be. where grassed waterways placed showing contours and terrage needs, and in general laying out a complete farm program built around soil conservation.

With these before and after maps completed the member is

vation club members include tak- ist.

pate in county, state, section and soil and water. national awards for outstanding The Hutchinson farm in Lanclub work well done. Any 4-H caster county, operated by Hutch's rlub member regardless of wheth- brother, Ellis, has one of the most er or not he is a soil conservation complete soil conservation pro- to get dirt for a fill. club member, is eligible to com- grams on it of any in Nebraska. pete for these awards, the top o' The farm has terraces, is operat-

Where only two years ago gress in Chicago each December. there was a single soil conserva- Six state winners receive \$50 U.S. tion club or two in the state, to- Savings Bonds; and county winday there are a score, represent- ners are awarded gold-filled med-

## D. E. Hutch Is Conservationist

LINCOLN - He's probably the most enthusiastic soil conservationist in the state of Nebraska, and, for that matter, one of the most enthusiastic in the nation.

The purpose of the 4-H conser- thinks soil conservation 24 hours streams which easily become vation clubs are to learn to know a day. It's not just a job with

D. E. "Hutch" Hutchinson, disand to prevent soil wastage and trict conservationist with head- factors. These include the size of half of its total land area, and quarters in Lincoln, is one local the watershed, the past and pres- three-fourths of its farms and One of the projects of the club boy who did make good in his ent farming methods on the farm-ranches. members is that of drawing their chosen field. Born and reared in land, the type of crops or cover home form as it is, showing the Lancaster county, he attended growing there, the type of soil, farmers was the Brown Creek without electric service, according vation Service, contributes to this erosion occur, showing contours braska College of Agriculture, condition of the main streams where he graduated with a bache- and its capacity. eler of science in conservation in | Solution of a flood problem is

tion service at Pawnee City from generally divided into many 1935 to 1938 going from there to farms with many owners. Cooper- conservation districts which inthe soil conservation service dem- ation of all is essential to the enstration project at Syracuse, In successful solution of the prob-1939. Hutch became district con- lem. This is rarely obtainable. servationist, for the southeast Ne- The degree of interest of involv- the 1.172,0000-acre San Juan soil the percentage of farms with results may be expected only the 1.172,0000-acre San Juan soil the percentage of farms with results may be expected only the 1.172,0000-acre San Juan soil the percentage of farms with results may be expected only the 1.172,0000-acre San Juan soil the percentage of farms with results may be expected only the 1.172,0000-acre San Juan soil the percentage of farms with results may be expected only the percentage of farms with results may be expected only the 1.172,0000-acre San Juan soil the percentage of farms with results may be expected only the percentage of farms with res braska work group, with head- ed individuals has always been conservation district in Colorado, electricity increased from 10.9 in when used in conjunction with purely set Pawnee City quarters at Pawnee City.

three approved soil conservation tension service in March of 1945 concerned. practices; and is urged to do as mark, however, was the addition and mark, however, was the addition and mark, however, was the addition and the left that position this spring ble bulch farming, with grassed last spring of nearly a million.

The Eastern Nebraska Public terways are necessary to protect last spring of nearly a million.

Department of the left that position this spring ble bulch farming, with grassed last spring of nearly a million.

ing part in demonstrations of If every Nebraskan had Hutch's farming. good soil practices and encour- enthusiasm for soil conservation aging their elders to adopt soil there wouldn't be a farm in the FILLS DITCH WITH Other than the rewards in per- plete soil conservation program, sonal satisfaction and achieve- planned and engineered to fit the ment, the club members also peculiar needs of each individual have an opportunity to partici- form for saving the maximum in

which are eight \$260 scholar- ed under contour farming, stub-



Take a badly washed guily eating out your acres and grade it to sleping sides and seed it to grass—the above photo shows what can Roosevelt. be done with a little time and effort. A before and after panorama photographed by Soil Conservation Photo Service.

## Cass Countians Are Aware Of Flood Damage

Everyone in Cass County is aware of the damage being caused by floods to crops, buildings, and bottomland.

The question is often asked, 'How can this flooding be reduced or eliminated?" The answer lies in soil conservation and cooperation. Each acre of land on an entire watershed must contribute to the holding back of as much water as possible where it

This can be accomplished by the construction of a broad-based field terraces with grassed terrace outlets and waterways as the foundation, but many supporting practices are necessary. These include contour farming, contour strip cropping, the permanent seeding down of certain areas to trees or grasses which are too steep to farm, better management of pasture land to maintain at least a 4-inch cover of grass at all times, the construction of reservoirs or stock water dams, rotation of cropland and the inclu-sion of grass-legume mixtures in the rotation, field diversions, and cious planting of erosive crops which exceed the capability of the land where the the land where they are grown. Uni. of Nebr. We must reckon with the simple honest fact that, "All hill land is

We might visualize the probor basins collect the water which the soil will not absorb from many acres of hill land and fun-As one of his friends said re- nel it some times with rapidity cently, "Hutch eats, sleeps, and down into the main creeks or

He was with the soil conserva- which comprises the watershed is voted in December, 1938. consistent with their location on He joined the University of Ne- the watershed with those to the mer. Helping along in the last year. In Nebraska, the figure has most of Cass county contour culbraska college of agriculture ex-tension service in Month of 1945 conserved. bottom of the "funnel" the most part of the growth of the dis-

## NEIGHBOR'S SOIL

watching his neighbor just below him sodding down a grass water-

"I'm not," the farmer replied. "I'll fill it up."

"Where are you going to get

silt from drainage water.

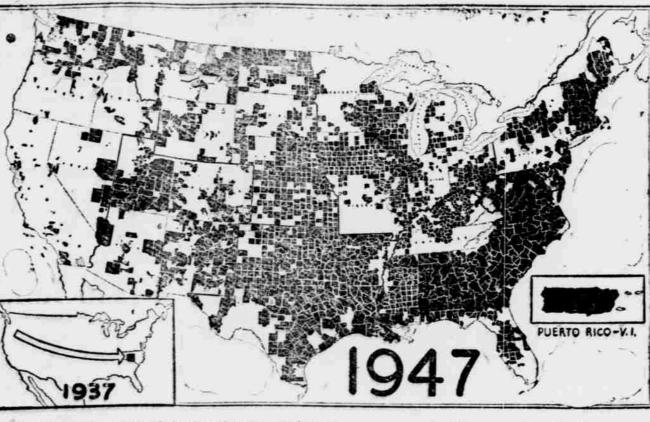
### Contrast Proves Value

Of Soil Practices LINCOLN - The contrast between a field across the road and that of A. H. Jorgensen, Farnam, tion. The field across the road their lands. The plans are based With reference to this large those produced on fields cultihad a complete crop failure in 1946. The Frontier country farmer reports a 25 bushel per acre yield from his corn this year. Both fields were planted at the same time and had about the same care. The field which failed to produce a crop had been planted in straight rows up and down the slopes for the last 40 years. The other field has been terraced and contour farmed for seven years.

We think of our land and water and human resources not as static and sterile possessions but as life-giving assets to be directed by wise provision for future days. We seek to use our natural resources not as a thing apart but as something that is interwoven with industry, labor, finance, taxation, agriculture, homes, recreation, good citizenship. The results of this interweaving will have a greater influence on the future American standard of living than all the rest of our economies put together.-Franklin D.

Use Journal Want Ads

### SOIL CONSERVATION DISTRICTS BIRTHDAY



On the 10th anniversary of the first farmer-voted and farmer-managed soil conservation district—organ-ized Aug. 4, 1937—there were a billion acres and 4½ million United States farms in 1,900 districts. The first district established under state soil conservation district enabling law was the Brown Creek District in Anson County, North Carolina (Inset). Soil Conservation Service Map

# History of Soil

a single soil conservation district of a few hundred thousand apply conservation plans. lem involved if we consider the acres to a lusty group of more main drainage stream as the small than 1900 including more than a end of a large funnel with the billion acres will be celebrated being voted into existence at the also interested in this phase of wipe open top as the many acres by soil conservation districts of land contained in the drainage throughout the United States and expected that by 1950, soil conbasin. These large drainage areas Puerto Rico, August 4, the tenth servation districts will total at the immediate results of a conseranniversary of the first district's lease 2400 and will include about vation program as measured by

er-managed units of state government cover all or parts of ever state in the Union and Puer Rico. Their billion-plus acres The severity and extent of clude nearly 60 per cent of the floods is dependent upon many nation's farm land, more than

year the first in Nebraska, which was the Papio soil conservation of Namaha anounced. generally very complex. The land district in Washington County.

clude 41,035,000 acres.

of American agriculture."

that hole "the man up above Soil Conservation Service, which Richardson, and Pawnee coun- priate supporting measures are makes virtually all of its technical ties.

and water conservation plans for have 1600."

on the principle of using each acre according to its capabilities and treating it according to its

vation Service has supplied the technical services to help 15,196 Farm Income farmers and ranchers develop and

According to the records new

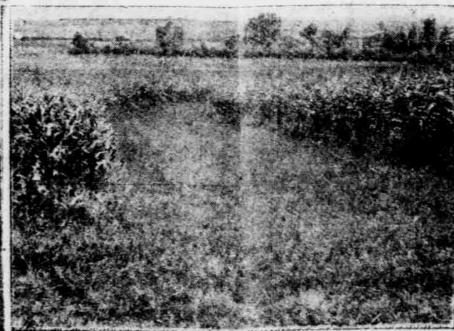
## REA Service Extended To

use of the fields, previous crop high school at Waverly, and the degree of erosion, the steep-rotations, where wind and water rotations, where wind and water came to the University of Ne-ness of land involved, and the son County, North Carolina, on the Eastern Nebraska Public Conf. son County, North Carolina, on the Eastern Nebraska Public Contour cultivation, when prop-Power District of Syracuse, Ne- erly carried out is one of the Hastings, Neb. 45.0 26.8 5 obtained through the county agribraska, President T. E. Wheeler most effective erosion control "-Contoured; ""-non-contour- cultural agent's office or the soil

Today, Nebraska has 82 soil farms still do not have service, the standpoint of increasing crop ranged from 2.5 per cent to 56.3 by Pres. Wheeler. Great prog- preventing erosion losses. Like 11 per cent. The unit that pushed the total ress has been made, however, other conservation measures, it acres past the billion mark was during the past 12 years, when has its limitations and maximum SEEDING WATERWAYS which was organized this sum- 1935 to 57.4 as of the first of this other good farming practices. In

Other activities of soil conser- to become district conservation- waterways, and all the other ap- acres to the White River soil conpurtenances of soil ocnservation servation district in Nebraska. tending service to 600 rural con-The anniversary brought a con- sumers within the district, most | Factors, such as soil type and gratulatory letter from Secretary of them farms, within the next soil condition, amount, and inof Agriculture Clinton P. Ander- few months, Mr. Wheeler report- tensity of rainfall, the length, irson to C. E. McArthur of Gaff- ed, and eventually it expects to regularity and steepness of slope, ney, S. C., president of the Na- add 5000 other consumers, bring- all modify the effectiveness of tional Association of Soil Conser- ing electric service to everyone in contour cultivation. Contour culvation districts, in which he the district who wants it. Mr. tivation may be sufficient during wrote, "the conservation being Wheeler reported that the dis- periods of heavy rainfall for the terrace above it to keep the wa- accomplished by farmers within trict, organized in 1935 and fi- orderly disposal of surplus wasoil conservation districts is one nanced with loans from the Rural ter, and during the drier grow-In building the terrace he dug a of the most promising assurances Electrification. Administration, ing season for the conservation hole above it about five feet deep | we could have of the permanency | now has 2100 miles of line serv- of moisture. It is in those areas ing 4500 consumers in Saunders, where contour cultivation serve-Dr. H. H. Bennett, chief of the Cass, Otoe, Nemaha, Johnson, this double function that appro-

Records of the Soil Conserva- and so long as any rural family tion Service show that its tech- in this area cannot have elecnicians aiding the soil censerva- tricity, our construction program slope have been used. tion districts have helped more cannot be considered finished. A than half a million farmers and year ago we had about 1500 ap- son on corn fields. Yields proranchers to develop complete soil plicants for service, and now we duced on the contoured fields



Here is a grassed waterway, located in a natural drainage through the field. Its purpose is to dispose of excess water without damage to the land. Terraces and contour rows lead to the waterway, making the water "walk" to it. Thus it can carry little or no silt. Grassed waterways are necessary parts of all farm conservation has paid \$294,673.68 in principal plans which Soil Conservation Service technicians help farmers on the loan, including \$19,000 paid work out and apply on the land in the more humid parts of Neoraska. ahead of schedule. It has a pay--Photo by Soil Conservation Service.

## Contour Plowing Has Increased

the long-time conservation of the soil conservation districts are still nation's resources. The farmer is rate of about 20 per month. It is the conservation program, but he are needed. 14 million acres and 542 million increased crop yields or greater of the nearly 6 million farms in net income. The investigations of of other states the increase was plowed in and leveled off. A the Research Division of the Soil even higher. Many of these re- waterway should be a minimum Conservation Service in coopera- sults were obtained under actual of 40 feet wide. Larger waterways tion with the State Agricultural field conditions and represent should be wider, and they should soil conservation, as practiced by about what may reasonably be be level. the Soil Conservation Service, is expected under general farm con- After leveling, the waterway meeting both of these interests. ditions in areas under similar should be thoroughly packed and then seeded down. Bromegrass is The aim of this discussion is to conditions. point out how contour cultivation, one of the major practices First to be organized by the Nebraska still has 71,306 farms recommended by the Soil Conser-

> measures for cultivated crop land ed: \*\*\* No. of fields. About 2,500,000 of the nation's thus far used. It is effective from | Increase due to contouring fice. is highly desirable. Grassed wa-

and other assistance available to Cur construction program has One of the most important districts, said: "This action by gone ahead much slower than we means for evaluating any cul American farmers marks the be- had expected," Mr. Wheeler said, tural practice is to examine the ginning of a movement that can "Nevertheless, we added 275 fam- crop yields resulting from the insure the permanency of our na- liles to our lines during the past use of the practice. The available The farmer sneered. He re- tion. It provides for the perma- I months. We are building new data on this subject have been marked that it would take years nent security of a basic resource lines just as fast as we can ac- brought together and are present for a hole that size to fill up with of our nation-productive soil- mumulate materials, men and ed here. Only such data as wil' without which it cannot survive." money necessary to do the work permit a direct comparison of the effects of contour cultivation with Table 1 shows such a compari-

were significantly higher than Illinois the weighted average in- | ?crease was more than seven bushels per acre, while in a number

group who had applied for service, Mr. Wheeler suggested that every farm family desiring electric service in the future should apply at once. He pointed out that the final date when any farm receives service is more dependent upon prompt filing of the application than anything else. "Our construction program is gradually picking up speed," explained Mr. Wheeler, "and, to keep it rolling, it is desirable to know as far in advance as possible who wants service.'

Mr. Wheeler emphasized that the Eastern Nebraska Public Power District is an independent local political subdivision, controlled by a board of directors, ciected by the voters in the seven counties served by the district. It has borrowed \$2,157.117.70 to build its electrical system, and it roll of 40 people.

## Cass County Farms Have Built 520 Miles Broadbased Terraces



tims picture snows newly-built terraces on a sloping field. They were built with a plow. They are broad-based and gentle-sloped so that they do not interfere with farming operations.-Photo by Soil Conservation Service.

According to E. Thomas Stacey, soil conservationist, Cass crop. County farmers have built approximately 520 miles of broadbased gradient field terraces to date. This is but a start on the 10.000 miles that are urgently needed to protect the rich farm the foundation practice upon which soil conservation rests leviate the problem tempor-With the increased emphasis and arily but it will re-occur unless high priority that is being placed proper cropping practices are on them in the Cass Soil Conser- used. vation District program, a world 7. The reduction insilting can

of caution may be needed. 1. Terraces can be destroyed ping practice.

er severe especially when in row cation of the practice.

only be effected by proper cropby inter-terrace erosion due to Stacey points out that most soil improper farming methods. Ro- erosion is caused by a few rains

sedimentation traps, but often

of a terrace which is an orderly

6. Terrace maintenance may al-

disposal of surplus water.

tation and the use of grasses and of excessive intensity. The Soil Conservation Service has devel-2. Terraces alone do not give oped a safe range within which sufficient protection against hard excellent results may be obtainrains. Contour cultivation and ed from the use of field terraces. other soil conservation practices However, the services of a trained 3. Rilling and sheet erosion be- perform the layout to get the

Corn (Bushels) Per Acre

Urbana, Ill \_\_ 91.5 89.1 117 ing down waterways and other Clarinda, Ia... 75.8 69.6 102 soil conservation practices can be

recommended for seeding at a rate of from 20 to 30 pounds of viable seed per acre, Stacey says. \*\*\* Further information on grass-

conservation service district of-As a nation we not only enjoy

prosperity, but if this property is used aright it is an earnest of future success such as no other na-The first step in establishing foresight for this nation is great soil conservation practices on and easily foretold. But there farms is the establishment of must be the look ahead, there grassed waterways, writes E must be a realization of the fact part of the growth of the dis- risch from the per cent new, Mr. Wheeler with terracing and strip cropping trict's total to the billion-acre 36.1, per cent new, Mr. Wheeler is highly desirable Grassed was servationist. These waterways ural resources, to skin and exare the natural drainageways on haust the land instead of using the farm where water accumu- it so as to increase its usefullates and runs off. These water- ness, will result in undermining ways are used to carry the sur- in the days of our children the plus water after terraces are very prosperity which we ought Before seeding is done, it is ne- amplified and developed. cessary that these waterways be Theodore Rocsevelt.



standing on the farm that has been selected as having outstanding soil conservation program. Mr. Ingwerson has been chosen to vated up and down the slope. In represent this district in the World-Herald Soil Conservation contest

## FARMERS . . .

The Business and Professional Men listed below have made this edition possible. Remember them . . . They are your friends.

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