Scientist Traces Soil Background

(Continued from page 14.) grassland areas by the moving sand is also serious.

The rolling hills are occupied y another sandhill soil that has topsoil of 6- to 10-inches in nickness. It is composed of a nough humus to give it rela-ively dark color. The topsoil rades quickly into the pale rayish-yellow sand underneath. Inder proper grazing manage-nent these soils support vigorous rowths of the tall grasses that e classified by the range spealist as some of the best grass-s for grazing. The quantity of brage produced by the grasses the threse soils is high. Again the onservation of these soils is age is produced. It is needless to add that where these areas are over-grazed, severe damage from erosion are placed in another the blowing sand will result. Some of these same soils are found on the higher portions of another group may be suitable the bottomlands or valleys. An only for pasture, in which case example is found on the low a conservation plan is developed hummocky areas of the Elkhorn that stresses range management.

and depth from those with dark sandy topsoils 16- to 18-inches deep to those that have very dark, clayey topsoils that are 6- to 12-inches in thickness over stall 22-inches in thickness over stall 23-inches in thickness over stall 24-inches in thickness over stall 25-inches in depth, luxuriant grass meads have developed.

DIL CONSERVATION SUR-

for a soil conservation program is received in the local district office, the first step towards developing a soil conservation plan is to make a conservation survey

In making this survey, the soils scientist studies the soils by digging holes to observe the various horizons or layers. From his knowledge of the area, he is able to classify the soils according to their depth, color, texture, and various other limitations and bose sand that has accumulated hazards that they may have. In addition to the soils, the mapper also observes and makes notes on the erosion, the slopes and the present land use.

> Since some of the soils have characteristics that will cause them to respond to certain soil conserving practices while others will not, the soils are grouped accordingly.

Those soils that are sandy and on that particular piece of land. are subject to wind erosion are The map he produced was used. lergely a matter of adjusting placed in a group for which spesocking rates to the point where cial emphasis is placed on a conmaximum tonnage of grass for- servation treatment that will reduce losses from wind erosion. Those that are subject to water this map quite carefully when erosion are placed in another you have the opportunity and if group that must be protected from this sort of erosion. Still

A third group of soils occurs in has established eight broad land the low wet meadows of the clasces or groups into which all Sandhills. They range in color land in the United States is classand depth from those with dark ified. Because of the variations

OIL CONSERVATION SUREYS IN HOLT COUNTY—
ince the Holt county Soil is capabilities. It is only by detailiservation District was organd, approximately 129,000 action of soil conservation survives. if d, approximately 129,000 acrossory of soil conservation surveys have been completed in the county. These surveys serve as a basis for making the conservation plans on both the farms and ranches. They are made on aerial phpotographs by trained soils scientists. When an application of soil conservation work on your farms will recall having seen our soil scientist walking over your to R Risty-Earl J Rodman & John O Jensen 2-6-51 \$26,045.86 in map. He was studying the soils, slopes, erosion, and the land use



A group of high school agricultural students are studying erosion that has taken place on a silty loam soil with moderate slope. Lloyd E. Mitchell, state soil scientist, says the largest area of this type soil if found northeast of Town Hall, in Shields township, and northeast of Page.

MORE PRODUCTION

Nebraska Is Fortunately

Situated to Meet

Wartime Needs

By E. G. JONES

State Conservationist

Soil Conservation Service

services and uerense industries, it

again will post the problem of getting this production with few-

The question arises: Can we meet this demand for increased

agricultural production so soon after World War II without serilusty weakening our land and water resources? Except in rela-

tively small areas Nebraska has not been seriously depleted by erosion and improper land use in the past. But the threat of curtailing the state's land and water

An analysis of the informa-

tion gained in past surveys has been made by the Soil Conser-

vation Service. It shows that Nebraska is more fortunately

But even so, only a little over two-thirds of the cropland is on

deep, silty or sandy loam soils

ea within a relatively short time

to a satisfactory production level by conservation measures. some of this, however, is rolling

land where gully erosion can become severe enough to make fur-

ther cultivation impractical. And some is light enough soil on

which wind erosion losses can be

Twenty-seven percent - more than one-fourth—of the cropland is underlaid with clay subsoils.

This is land that cannot be built up, in a man's lifetime at least, if ever, to anywhere near its original productivity after all the topsoil has been lost. Much of

this land has already lost a considerable part of the topsoil

Other is on thin soil over rock, gravel or loose sand. That kind of

soil, once the topsoil is gone, is finished for cultivated crops.

Unless erosion is controlled, there is a very real possibility of

crippling the land and water resources of Nebraska since so large a part of the cropland soils

are of a nature that once their

topsoil has been lost they cannot

be restored to more than a frac-

tion of their former production

Experiences during the last

war, however, showed that properly designed conservation in-

creased production without in-

creasing expense and labor. Such

conservation requires that crops be grown only on the good land,

where the returns from the labor expended are the greatest; that

gullies be converted to grass waterways instead of remaining waste and ruinous to adjoining

land; that all land be put to its best, most productive use.

tricts are concerned, much progress has been made toward put-

ting the land in shape to meet

So far as the cooperators with the state's soil conservation dis-

for a long time to come.

through erosion.

with permeable subsoils - the kind of land that can be restor-

situated than many states.

resources is very real.

er people.

AGAIN DEMANDED

by the planner when he visited your place to work out a conser-

vation plan with you.

It is suggested that you review you have questions about it ask the SCS technician about them. You may find some interesting facts about your land that are new to you.

REAL ESTATE TRANSFERS

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2 & 3 Blk 6- Western Town Lot

You might say that the "heat is on again." Inat is, American agriculture is again being asked to

The basic policy of the Soil WD — Eva A Kaczor et al to Conservation Service is to treat James Cooper & wf 2-10-51 \$13,-

vation districts, voted by the landowners under the provisions or the state soil conservation districts law, include all of the farm and ranch land in Nebraska.

More than 26,640 farmers and ranchers cooperating with these son conservation districts had brought more than 8,150,000 acres unuer complete conservation plans, which they had worked out and are applying with the technical aid supplied by the Soil One-Third Washed— Conservation Service, aiding the districts. These conservation plans are based on the conservation survey made by the SCS of each unit cooperating, with the soil conservation districts in order to provide the information to enable the technicians to determine land capabilities, diagnose the actual causes of the erosion problems, and propose the right combinations of conservation

Progress made by these co-operators and the SCS technicians aiding them was greater in 1950 than in 1949, which was up to then the best year. This, in spite of adverse weather conditions that included the late, wet spring. In the application of the planned soil conservation measures they surpassed 1949 in most instances.

Accomplishments by these cooperators with soil conservation districts mark a steady forging ahead toward the goal of putting their units in shape to conserve the use of the greatest amount of merease production to meet the water, control erosion, and imTHE FRONTIER, O'Neill, Nebr., Thurs., Mar. 1, 1951.—PAGE 15.

Over 1,470 of them have their conservation plans fully established on the land. Others are well along toward that goal. But others, who have just begun cooperation with their soil conservation districts, still have a long

Approximately one-tnird of the U.S. has been washed to the foot of slopes, into streams, and down to the ocean.

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Holt Co. Soil Conservation District

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Phone 74 — O'Neill

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HERE IS THE ACTUAL RECORD

stomers Name and Address Pigs	Weight	Ave. Wt.	Customers Name and Address Pigs Weight	Ave. Wt.
0			ILLINOIS	13.00
IOWA	410	58.5	Harold Turner. Maquon 9 450	50
Villiam Thompson, Prairie City 7 Yunis Vonk, Oskaloosa10	430	43	Dean Barnett, Buda11 357	32.5
Seerly Helland, Gilbert9	268	30	KANSAS	
Burkett Bros., Dallas Center 9	416	46.2	Jed Denton, Denton 475	47.5
Joe A. Fier, Maguoketa9	279	31		
Fred Finger, Odebolt15	776	51.75	MISSOURI W H Lottar Jamesport11 325	29.6
Harry Dammann & Sons, George15	521	34.7		37.7
Herman Anderson, Des Moines 8	348	43.5		46.0
Joe Rubner, Earlville 8	440	55	fidings dicoms, et essepti	42.9
John Otting, Bernard10	282	28.2	W. G. Kirk, Plattsburg 7 300	42.7
Arnold Kokemuller, Maquoketa 9	461	51.2	* NEBRASKA	
Claud Harrah, Eagle Grove 9	393	43.7	Lloyd Patras, Brunswick 8 408	51
Emmett Vreak Evira	248	31	Gordon Johnson, Brunswick 7. 343	49
Ellsworth Cizek, Traer 7	309	44.1	Martin Heinke, Talmage 7 350	50
Jack Houston, Mt. Pleasant20	656	32.8	John Nun. Geneva 7 309	44
D. F. Elliott, Oxford11	429.5	39	Victor Bohuslarsky, Bellwood11 480	43.6
Gordon Shipment, Shell Rock10	- 270	27	Gilbert Janssen, Platte Center 8 244	30.5
Wallace Squiers, Chelsea10	396	39.6	Bruce Gocken, Cedar Bluffs 9 390	43.3
E. G. Wilcoxson, Lamoni 9	378	42	Joe Radcliff, York 7 300	42.8
Leo Koenigsfeld, Ionia21	1359	64.7	Gordon Watts, Edgar11 456	41.5
Harold Lee, Lime Springs18	921.5	51.2	Flwood Martinson, Spencer 7 213	30.5
Letand Truka, Lime Springs10	340	34	Rolland Shoultz, Schuvler 8 286	35.7
Henry Zobel, Mt. Auburn10	412	41.2	Lloyd Gibson, O'Neill 9 303.5	33.7
			Norb Uhl, O'Neill	41.5
MINNESOTA			WISCONSIN	
Alvin Schloesser, Le Center 8	182	22.8	11 420	39.0
Marvin Wadd, Waseca 9	404	44.9	Stricker & Son, Kalona19 589	31
Karl Scheffler, Zumbrota 9	445	58.5	Babe Bransul, Evansville 8 368	46
Geo. Highum, Peterson11	398	43.3	Chester Home Farms, Waterloo 8 344	43
Donald Greenfield, Klester10	385	38.5	Zeno Skaliztzky, Waterloo 7 315	45
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Rodney Busch, Ellsworth19	788.3	41.5	Kenneth Wutke, Whitewater 7 269.5	38.2
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