Deferred, Rotation **Grazing Not New**

Free Gladiolus Bulbs

MANY OF our customers have asked us

roads were too bad to get in. So, until Ap-

ril 15, 1953, you get 5 FREE bulbs with \$1

worth of Salsbury's Ren-O-Sal, Can-Pho-

Sal, Par-O-San, Hog Oil, Rota Caps, Sul-

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bulbs with every gallon of Master Liquid

to continue our glad bulb offer as

ticle prepared and presented by E. J. Dyksterhuis, Regional Range Specialist for the U.S.

"Grasses and Forage Plants" by bringing the green sprouts out Flint that was already in its fourth edition in 1859. It doesn't contain the terms "deferred" and great impression on the soil." "rotation" grazing but the need was recognized even then. Here is a quotation: "The fall growth collects the elements of a thrifty growth in the following spring. These are stored up in the roots over winter for the early use of the plant. If it is closely fed, the spring growth must be propor-tionally later and feebler."

Will C. Barnes, an early range conservationist, used the term so that more than one pasture "rotation system" in his book in 1913. He recommended resting one-fifth of the range each year. In describing the virgin range Barnes stated: "The spring snows

Dr. Fisher, Dentist

In the Bishop Block-Norfolk Office Phone: 610 Res. Phone: 2842

Hog Medicine.

(Editor's note: This is an ar- olay under the folds of the old grass, weeds or brush that covered the ground. Let the wind blow as it pleased, it could not Soil Conservation Service, blow the snow entirely off the ground. A certain amount of it was allowed to remain to melt There is an old book called and soak into the ground, thus early in the spring, and it took a long dry spell to make any

> There are several systems of grazing that provide rests for one or more pastures each year. If all the livestock are taken out of one pasture for certain months, the practice is called "deferred grazing."

It is called "rotation" grazing if in a year one herd of livestock is moved from pasture to pasture receives a rest or several rests all in the same year. If only two pastures are involved, this may be called alternative grazing. The most complicated system to plan is "rotational deferment." This system takes more than one year. Under it different pastures are rested in successive years.

a tame pasture; that is, a pasture



Brome Differences Noted

Difference between bromegrass growth in grassed waterway (above). On right, fertilized with ammonium nitrate; on left, not fertilized.-Photo by Soil Conservation Service.

are severely overutilized and

If the whole ranch is much

overstocked, however, it will be impossible to spare even

one pasture for a few months

without running into poor

Commonly we rest the poorest pasture first. Actually it is us-

in top condition can carry a hea-

Often a pasture is rested except

vivors of good grasses often are

enough to keep these most palatable grasses from increasing.

Tame pastures are often rotated at set intervals. For example,

gains or losses in weight.

weeds enter.

ruined by changes in the kinds of plants. Just the opposite is true of native range. Any land "ice cream" plants. Such plants which was originally good range, are soon leveled and then livesuch as the prairies and plains, stock are forced to eat "meat will benefit from complete rests. and potatoes" too. Running twice "Weeds" may become quite nu- as many for half as long has ofmerous at first but this is often ten eliminated patchy grazing a good sign on range land. It and resulted in good use of far may mean that nature is getting corners - whereas without the the land ready for the grasses. system livestock made a living If we keep all livestock out of The grasses that were there by regrazing the areas they grazwhen the white man came will ed down first the spring. This of introduced or domesticated finally push the weeds out. But results in old growth accumulatif too few good grasses are left ing year after year and becomplants and do not mow weeds, if too few good grasses are left ing year after year and becom-the tame pasture will finally be in the pasture for natural re- ing less attractive to livestock seeding of the area in a reason- even though such areas are betable time, it may pay to bring ter able to carry them while the them in with seed-hay or seed- grazed portions of the pasture

> There is nothing more certain in range management than that complete · rests improve poor ranges. Nature is constantly try-ing to reestablish the kind of vegetation each soil had originally. This is operation of the natural law of plant succession and the end product—the original grasses — is called climax. Several long rests unsually result in better kinds of range plants. Short rests usually result only in better growth of kinds

> already there. If certain pastures are rested, the stocking rate will be heavier on the other pastures. For example, if a man runs 100 head on two 1,000-acre pastures with the gate open between them, the stocking rate is 20 acres per head. When he closes the gate and keeps them all in one pasture while the oother pasture rests, the stocking rate is 10

pasture for half as long has ad-vantages. It takes about half as that need rest the most, will be much riding to look after the livestock. It gives part of the with five head as with 50. Surlivestock. It gives part of the range a complete rest. It results

storage completed on key sperested. Pastures with different key grasses require different seasons of rest for improvement.

often necessary for greater pro-duction later.

pally in the second year.

Some experiments have shown some growth can take place af-

with two pastures a six month | before they enter in the spring. season may be divided into four Furthermore, there is some periods of six weeks each. In that | shrinkage each time a fattening way the livestock are in each steer must be herded to another pasture twice each year for six pasture. weeks and the pastures receive rests of six weeks twice during cow herds and long complete dethe year. This works quite well ferments have shown good reon tame pastures but has little sults. A common and excellent value on range pastures. On practice with cow herds is to give ranges the periods of deferment one pasture a complete rest must be aimed at increasing the through the growing season unamount of certain kinds of til hard frosts. Then this deferred This means that the pasture can provide a supply of pasture must be rested during roughage for winter. Such the months that certain key roughage is usually low in prograsses make their growth and tein and phosphorous. Cottonmature seeds, or during the seed cake or a similar concen-months that they store food in trate will have to be hauled durtheir roots and rootstocks. The ing the winter but this is usualseason of rest must be based on ly necessary anyhow. With plenthe needs of key grasses rather than on mathematical divisions pasture it won't be necessary to of the grazing year on the cal-endar. Many of us have noticed haul hay all winter, too. cases where deferment of ranges for several months had little benefit in improving range condition. Sometimes no benefit resulted because the livestock were returned to the pasture before the seeds were mature and root cies. In other cases there was little or no opportunity for key species to store food in their roots because they made little growth while the pasture was

Another common misunderstanding about rests it that they should show immediate benefits in greater livestock gains. Actually they seldom do on range land. There is a loss of protein and phosphorous whenever a green blade turns brown as on a deferred pasture. Yet that loss now is

The benefits in gains per acre usually show up after the better kinds of plants on the range have increased. The increase in good plants does not happen in the first year. Better grasses must first seed. Then their seedlings must become established and crowd out weeds. Also, estabture first. It will respond sooner and with greater increase in forually better to rest the best pasage production. The best pasture

On very poor pastures with crusted soil a rest may provide vy load during the long periods of rest needed on the poor pasa mulch of weeds to let more rain enter the soil. In such cases many of the same kind of weeds for a few livestock. They are left in the deferred pasture begrow much better and if palatable result in better livestock cause it makes a handy place to keep some horses, heifers, sick cows or rams. This practice has two had offerts The practice has formers and the left of the second two bad effects. The parts of the forage on one side of a fence as pasture that need the rest most on the other. On one side there acres per head on the stocked do not get it. Just a few head was a mulch from the previous will keep areas near water and year's growth and rain and snow ing year with the result that not

> ley were all put in one place that rotating steers between naresulted in poorer gains than staying on one pasture. This might be expected on pastures ter the steers are shipped and that always receive a rest when

SECTION TWO - PAGES 9 - 16

O'NEILL NEBR., THURSDAY, MARCH 19, 1953 .- PAGE 9.

Boyd Assistant Assessors Named

LYNCH-Boyd Assessor Loris H. Anderson appointed the fol-lowing assistant assessors in their respective townships begin work at once.

Ray Long, Lynch and Mullen townships; Harry Lewis, McCulley and Ware townships; L. S. Martinson, Bristow and Morton townships; R. H. Zink, Basin township; Nick J. Weber, Butte township; Frank Klasna, Spencer Herman Meyers and sons of Atkinson called in the Marvin township; Robert Zach, Bush Anderson home on Saturday. township; Rich. Janes, business.

MONEY TO LOAN

AUTOMOBILES TRUCKS TRACTORS
EQUIPMENT
FURNITURE Central Finance Corp.

C. E. Jones, Manager Neill : Nebraske O'Neill

Special to all Farmers and their Families Dear Friends: This is a personal invitation to you to attend our fortherming John Deere Day. Honestly, we think that we've planned a day that you and the whole family entertaining and educational pictures. There's the feature picture, a picture with stussorn old Tom Gordon -- "What's New for 1953", and other colorful films you won't want to miss? Than now to be with us and enjoy the day. Peinember, it's free. However, admission is by ticket only. If you haven't received your tickets - or need more - be sure to pick them up at our store.

Niobrara Valley Hereford Association SHOW and SALE

BUTTE LIVESTOCK MARKET

TUESDAY, MARCH 24

BULLS FEMALES

A Top Consignment of Herefords from the Following Good Hereford Herds in North Nebraska

Albert Carson, Redbird Vern Dix, Butet A. M. Engelhaupt, Butte C. H. Fisher, Spencer Paul Reel, Spencer Joe J. Jelinek & Sons, Walnut Whitaker & Whitaker, Oswald J. Kaup, Gregory, S.D. E. J. Lechtenberg, Butte

L. J. Lechtenberg, Spencer C. C. Nelson, Bristow Luceil Reel, Spencer

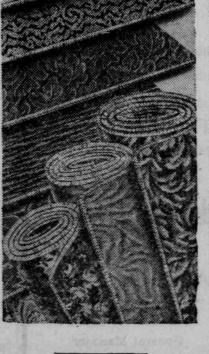
Norfolk, Nebr. For catalog write: W. G. SIRE, Sale Mgr., Butte, Nebr

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CUT PRICES MIDWEST

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JUDGE: BENTON MARSHALL AUCT.: CHARLES CORKLE

RUGS and **ADVERTISED BRANDS**

APPLIANCE

American Legion Auditorjum

John Deere Day .

See you John Deere Day!

Program Starts at 1:15 P.M. — Free Lunch After Show DOOR PRIZES

Your Hosts Harry R. Smith Implements, O'Neill



Each year, water and wind erosion, on farms throughout the country, "steal" the staggering amount of three billion tons of soil materials containing available and potential plant nutrients worth three billion dollars. You can put the shackles on this grand theft by adopting simple soil conservation methods for your farm.

There's nothing mysterious about con-servation farming. Many farmers consider it easier than present methods. Important,

too, it requires no special tools. Practically all your present John Deere Equipment is adaptable to conservation practices. In most cases, it means an actual saving in fuel and equipment upkeep because conservation farming is "level-land" farming.

It will pay you to discuss soil-saving and profit-building farming practices with your county soil conservation representative

FROM THE

TO THE HOLT COUNTY SOIL CONSERVATION SERVICE

Harry R. Smith Implements Near Corner Fourth & Fremont Sts. Phone 562

CONSERVING SOIL IS EFFICIENT FARMING

tower.

condition. HOG SHED, 10x24. OIL BATH WINDMILL,

Village of Emmet, Nebr., on-

BARN, 20x32, with hayloft,

stanchions for 12 cows.

SEPARATOR, stainless steel discs, 3-S, used very little. CATTLE SHED, 14x30, made of DeLaval W-12 CREAM matched flooring, very good SEPARATOR. Steel Wheelbarrow Jack Screw — Tank Heater **Numerous Tools**

McCormick - Deering CREAM

Woodsman, and 25-ft. steel 180 Rd. Good, Used HOG WIRE ½-Barrel FEED MOLASSES, lig.

The above-described buildings need not be moved immediately. All are in good repair, may be inspected before the sale.

THE FOLLOWING personal property will be sold at public auc-

Saturday, March 28

Sale Starts at 1:30 P.M.

Farm Buildings & Supplies

tion at my residence, located in the southeast corner of the

Some Household Goods . . . Other Miscellaneous Items TERMS: CASH. No property to be removed until settled for.

Mrs. P. W. McGinnis, Own

COL. WALLACE O'CONNELL, O'Neill, Auctioneer

HOMER F. MULLEN, O'Neill, Clerk