



Sunny Monday

The King of Laundry SOAPS. Yellow soaps contain rosin. SUNNY MONDAY contains no rosin.

"Sunny Monday bubbles will wash away your troubles."

Use Gold Dust it is better and cheaper than yellow soap.

Buy Sunny Monday and Gold Dust

-of-

J. N. PEALE



Denatured Alcohol.

Why use wood alcohol when you can buy grain alcohol denatured, just as cheap? Denatured alcohol has a pleasant odor and is harmless to use.

Wood alcohol has been known to cause blindness. Denatured alcohol can be used for cooking, heating, etc.

S. R. LEE

The Busy Druggist

Schedule of Broken Bow Mails.

POUCHES FOR THE EAST CLOSE AS FOLLOWS:
 Train No. 45..... 8:30 a. m.
 Train No. 42..... 9:30 a. m.
 Train No. 44..... 10:30 a. m.
 POUCHES FOR THE WEST CLOSE AS FOLLOWS:
 Train No. 41..... 7:30 p. m.
 Train No. 43..... 8:30 p. m.
 Train No. 40..... 9:30 p. m.
 Office open Sunday (from 10:30 to 10:30) a. m. week days, 6:30 a. m. to 7:30 p. m.

B. & M. Train Schedule

WEST BOUND	EAST BOUND
No. 37..... 6:30 a. m.	No. 40..... 6:30 a. m.
No. 36..... 11:30 p. m.	No. 41..... 9:30 a. m.
No. 35..... 8:22 a. m.	No. 42..... 11:17 p. m.

No. 39 and 40 run between Lincoln and Broken Bow only, and not on Sundays.
 Freight trains No. 47 and 48 carry passengers but are run as extras.

The Misses Lottie Bowman and Ellen Cane of Anselmo were visiting in Broken Bow the first of the week.

BUSINESS POINTERS.

C. A. Norcutt, lather.

Dr. Bass, Dentist. Over McComas.
 Drs. Farnsworth & Beck - Dentists.

Drink "Blue Ribbon" coffee. Roasted fresh every day. 24-tf.

Two rooms for rent in the Myers block. E. F. MYERS.

FOR SALE.—Four room house with 1-6 block of ground. Close in. H. SIMONSON 22-tf.

The winter term at Custer College will begin January 4t. 27-tf.

WANTED.—A man and wife to work on a ranch for the winter. Inquire at this office. 28-tf

WANTED.—Place for young man to work for board and go to school. Telephone No. 78.

Drink "Blue Ribbon" coffee. Roasted fresh every day. 24-tf.

The winter term at Custer College will begin January 4th. 27-tf

"Through to grass":—Parties having stock to put out winter or summer can find good accommodation for same by writing.
 32-21 C. H. Cass, Loyal, Neb.

Drink "Blue Ribbon" coffee. Roasted fresh every day. 24-tf.

WANTED—Educated Christian man, of ability. Position permanent with good chance for advancement. Address W. B. In care of Republican 2t

Two office rooms to rent in the Myers building. E. F. MYERS.

I have now arranged to take care of a general collection business, having secured a competent clerk and stenographer, and all collections will receive prompt and energetic attention.
 20-tf N. T. GADD

Home Course In Modern Agriculture

III.—Preparing the Ground

By C. V. GREGORY.

Agricultural Division, Iowa State College

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SINCE the condition of the soil has so much to do with the readiness with which the plants can get food from it one of the most important problems that confront the farmer is the proper preparation of the ground. The first work of preparation usually consists of plowing. Plowing the ground pulverizes it to some extent and buries the weeds and trash that may be on the surface.

Plowing should not be done when the soil is too wet, or the first of these objects will not be accomplished. Instead of being pulverized, the slice turned up by the plow will be packed together more firmly than ever and

will bake into a hard clod. The furrow slice will also turn up cloddy if the soil is too dry.

A good way to tell when a field is in proper condition to be plowed is to squeeze a ball of the dirt in your hand. If it sticks together in a pasty mass you had better let it dry a few days longer. If it hangs loosely together in a mealy ball the plow can be set to work at once. Such soil will fall over the edge of the moldboard in loose, crumbly masses. The field will not be ridged like a washboard, as too many fields are, but will aptly demonstrate the truth of the old saying that "a field well plowed is half harrowed."

In order to do a neat job of plowing a colter and a weed hook are necessary



FIG. V.—A GANG PLOW AT WORK.

ry attachments. By using them all the trash can be turned under completely. This not only hastens the decay of such matter, but also adds greatly to the looks of the field. Too many farmers do not pay enough attention to looks. A ragged looking field may raise just as large a crop as a smooth one, it is true, but the farmer who is careless in his plowing is likely to be careless in everything else.

If the plowing is done in the fall it does not matter so much whether it turns up cloddy or not. The hard frozes of winter are the best pulverizers that ever tore a clod to pieces. This is one of the advantages of fall plowing. One of the disadvantages is that in an open winter the soil is liable to wash badly. This can be prevented to some extent, however, by planting a catch crop, such as oats or millet, on the field after plowing.

The depth of plowing will vary with the conditions. A light, sandy soil does not need to be plowed as deeply as a heavier one. If the ground is plowed the same depth every year the bottom of the furrow will become hard and the roots will have difficulty in getting through it readily. A good plan is to begin at, say four inches, and plow one-half inch deeper each year until a depth of seven or eight inches is reached. Then go back to four inches and begin over again. In this way a little new soil is turned up every season and the layer of surface soil gradually deepened.

Spring plowing should be shallower than that done in the fall. The soil is full of tiny pores, its structure being much the same as that of light bread. If you will put one corner of a slice of bread in a dish of water you will notice that it becomes wet for a considerable distance above the surface of the water. This is caused by the moisture flowing upward through the little holes in the bread. The force that causes water to rise in a small tube is called capillarity. It is this capillarity that makes the water rise from the subsoil up to the surface where the roots can use it. The smaller the capillary tubes the faster and higher the water will rise.

When the ground is plowed these capillary tubes are broken up, and the rise of water is checked. To start it again the soil must be allowed to settle for a long time or else be worked down with the disk, harrow or roller. In the fall the depth of plowing does not matter, since the furrow slice will have all winter in which to settle. But in the spring this capillarity must be restored almost at once or the surface layer will become so dry that germination and later growth will be checked. Hence the importance of shallow plowing, so as to reduce the labor of disking and harrowing. If the surface of the ground is crusted or if there is much trash to be turned under the field should be disked before it is plowed. This will provide for a layer of fine dirt in the bottom of the furrow, which will pack down closely and help to restore capillarity.

If the furrow turns up "shiny" or shows any tendency to bake into clods it should be harrowed every half day, or every day at least. This seems like a great deal of extra work, but if a harrow is kept in the field it does not take long to hitch on to it and go over the newly plowed strip just before quitting for noon or night. A few minutes spent in harrowing at such

times will pulverize the ground more than hours of work after it has become dry and baked.

The fall plowing will usually need to be gone over with the disk to get it in shape for planting. The superior condition obtained by double disking—that is, letting the disk "lap half"—will more than pay for the extra labor. There is an additional advantage in that the surface is left smooth. Disking spring plowing is seldom necessary.

In cases where improper plowing has left a field cloddy the roller may often be used to advantage. A corrugated roller is better for this purpose than a smooth one, as it tends to crush the clods rather than to simply push them down into the finer dirt. A homemade "plunker" or clod crusher will often answer the purpose as well as a roller.

The roller packs the ground considerably and so quickens the capillary rise of water. If the surface is left smooth much of the moisture that comes up will be lost by evaporation, and later in the season the crop will be likely to suffer from drought. To avoid this the roller should be followed immediately by the harrow.

This loosens a thin layer of surface soil. When the capillary water reaches this loose layer its rise is checked, and comparatively little is lost by evaporation. For this same reason it is often well to harrow fall plowing as soon as it is dry enough in the spring, especially if disking is not to be done until late.

After the ground is plowed and disked the harrow must be used to complete the preparation for planting. There are many kinds of harrows, but none that are better than the ordinary spike tooth. These are made in all styles and sizes. The harrow is economical to use, since it gets over ground so rapidly. The best time to harrow in order to pulverize the soil is immediately after a light shower. The little clods will then be softened and will be easily knocked to pieces. To kill weeds, however, it is better to wait until the soil is a little drier, as harrowing a wet field will transplant the weeds rather than destroy them.

Do not be afraid to harrow too much. No work that you can put on a field pays better. No other implement will kill as many weeds in so short a time, and no other machine will tear clods to pieces so rapidly. A field well plowed and disked and harrowed until it is in as fine tilth as it is possible to make it is an ideal seed bed. Seed planted in such a soil will start under the most favorable conditions. If the seed itself is strong and the after treatment what it should be, a maximum crop may be expected.

Not all fields need to be plowed before the crop is put in. It is a general practice in the corn belt to sow small grain on stalk fields without any previous preparation. Experiments have shown that small grain does not yield enough more on plowed corn stalk ground to pay the cost of plowing. Very frequently they do not yield as much. Where small grain follows small grain, however, plowing is necessary to kill weeds and loosen the surface soil. It does not need to be loosened as deeply as for corn, however, since the small grain plants are harder than corn and the roots are more aggressive in pushing through a hard soil.

While plowing stalk ground is unnecessary, it will usually be found profitable to disk the land before sowing. This chops up the corn stalks and provides a mellow layer of soil for the seed to germinate in.

Where the oats are to be put in with a drill the ground should be double disked previously. If sown broadcast



FIG. VI.—PREPARING THE GROUND WITH A DISK PLOW.

one disking before sowing and one afterward will cover them better than two after sowing. The drill is becoming more popular for sowing oats, and justly so. It places the seed at an even depth and covers them all. It saves seed because it places all of it where it has an opportunity to grow. After the oats are drilled or disked in at least two harrowings should be given. Even three or four would not be too many, since this is the last chance to cultivate the crop.

In some parts of the corn belt the practice of listing corn is followed. This consists in throwing up a large furrow and planting the corn in the bottom of it. In this case there can be little previous preparation of the ground unless it is to go over it once with the disk. Corn is listed only on very light soils, which do not puddle or become cloddy easily. Such soils need less preparation than the heavier clays and loams.

Sheppard & Burk

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Sows Sired By: King Look 24459, Grand Look 38305, Chief Tec. 3rd. 20740, Young Tec. 42406., standard Chief 2nd etc.
 Stock for Sale at Private Treaty No Public Sale This Fall.

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Mr. Farmer:—By the time your boy grows up and becomes old enough to take up in his own name one of the new Government Irrigated farms in the Big Horn Basin it will be too late for him to get one. Will you let his chance go by? Is this fair to the boy? What will he think of your foresight when he seeks for land and finds that you neglected to take in 1909, almost as a gift, an Uncle Sam Irrigated Farm that in 1919 will cost him \$150 per acre? Of course, if he has the price, all right, but what if he has not?

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Consult Us Before Advertising Your Sale.