Harrowing Growing Grain

The Proper Time to Harrow---Killing Weeds---Kind of Harrow

By Seager Wheeler

The harrowing of growing grain may be said to be in the experimental stage as far as Western Canada is concerned. There are some conflicting opinions as to the advisability of harrowing grain after it is above the ground. Some will advise har-wing at a certain stage, others advise harrowing with the rows, while others advise harrowing across the rows. Some claim it is beneficial, while many elaim it is detrimental to the crops, while many advise harrowing the crop without giving any de-tails, so that there appears to be no safe rule to go by, and many that would harrow their crops are afraid to do so. Anyone who puts the harrow on gooding grain simply because he is advised to do so, and does it without any definite purpose in view, or does so at any time is likely to be disappointed

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in single leaf stage, when it should not

with the results and may condemn the practice. On the other hand he may happen to go on the field just at the proper time, and, as a result will likely advise all his neighbors to harrow. In harrowing growing grain one should have two objects in view, i.e. to destroy weeds and to main-tion the weeds, and in doing this he is also able to maintain a mulch. The most important point is to con-trol the weeds, and in doing this he is also able to maintain a mulch. Apart from the question of weeds it is beneficial to the crops in the cultivation received. As far as the conservation of moisture is obscerned it is not necessary to do this except in certain districts, as at that period of the season when grain may be harrowed we rarely have rain heavy enough to form a crust. After many years' experience in harrowing grain at different stages of growth and condition of the soil and season. I have found that there is a period when it is beneficial to cultivate the guider control and conserve moisture. Every kind of crop is benefited by

under control and conserve moisture. Every kind of crop is benefited by cultivation but every kind of crop cannot be cultivated at any time and cannot be cultivated at any time and the grain erop may be cultivated only at a certain stage. Until the time when we have special imple-ments to cultivate up to the time the grain is in the shot blade, we pound depend on the harrow to do the work. work.

As the main object is to control At the main object is to control weeds in the crop this article will deal with that operation only. This is written to dispel some of the gen-eral ideas that it is detrimental to the crops to harrow, and I would first point out that unless one has a full understanding of the operation, there is a probability that if one goes on a field of grain to harrow it simply because someone has advised him to do so he is very likely to pull off the field very quickly when he notes what a mess of it the harrow is making. making.

Smothering Causes the Damage

amothering Causes the Damage the service provide the set of the se

By Seager Wheeler iteularly if the field was very weedy. In such a case I would advise harrowing anyway, as it is a face I would advise harrowing anyway, as it is a face I would advise harrowing anyway, as it is a face I would advise harrowing anyway, as it is a face I would advise harrowing anyway, as it is a face I would advise the chances of injury to the crop han let the weeds get control. Where the weeds are thick between the rows of grain the chances are provide the weeds is that in harrowing grain it will pull out or kill considerable of the growing dual shoots. There is very little danger whatever full is the smothering, and altho it will not kill the grain out it will retard growth to some extent and that it is not possible to harrow any or every field of grain. Preparation should be made beforehand. There are large areas that are too loose to harrow. When the seed hed is too loose there is a greater would the seed hed is too loose there is a greater would the seed hed is too loose the reading provide the force and after seeding, to firm the soil provide the seed in the surface. As the packer leaves to with a light harrow to pull down the ridges to the packer. **Kling Weeds Important**

Killing Weeds Important

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After it gets that high it begins to tiller or throw After it gets that high it begins to tiller or throw out more stems, but does not grow much higher until a little later in the season. When it is in the stooling stage it will stand considerably more har-rowing than when in the single leaf stage. When it is in the single leaf stage I advise against har-rowing. The growth is rapid and the leaf is ten-der, and the harrows as they go through the soil act as miniature plows, rolling the soil out, covering the single tender leaf and smothering it to some extent and retarding growth. If a heavy shower falls soon after this is done it packs the soil around the leaf and it is apt to turn yellow.

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Right Kind of Harrow

I find by actual experience that the most good

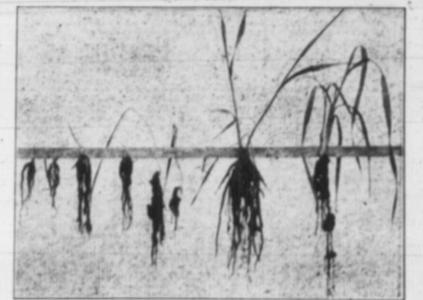


stualing stage.

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INFLUENCE OF CROP BOTATION

INFLUENCE OF CROF ROTATION Most old agricultural countries have found the order of cropping that gives the greatest monstary return consistent with the maintenance of produc-tiveness. Practically no information on the ques-tion is available in Western Canada, yet in the not distant future-even now on many soils-crop re-tation other than a failow followed by from two to four grain crops should be established. To get light



and, the first stage to harrow. Most first two, show about a first trage to harrow. Most first two, show absolving stage, the

and shows two or more stems, or is in the stooling stage. Too much advice is given to harrow grain when it is four to six inches high, and is respon-sible for much disappointment. Grain may be four to six inches high and harm may be done it. It may be six inches high and harm may be done it. It may be six inches high at the right stage and be bene-ficial. By taking measurements of the grain from time it is showing through the soil up till it is about six or eight inches it will be seen the growth is very rapid. This is when it is in the single leaf stage.