CULTIVATION METHODS

Many farmers have gone on to dry-land areas, both in this country and in the United States, and notwithstanding earnest application and hard work have made miserable fallures. The State of Kansas presents perhaps the mest vivid example of this. At the time that Kansas was opened up for settlement little was known of dry-land methods of cultivation, and during a series of dry years many farmers lost their all and were literally starved off the land. However, proper mellods of handling dry-land areas were found out by their experiment station, and to-day, by a systematic application of these methods, there is no more progressive or successful State than Kansas.

Success or failure in the handling of dry-land areas depends very materially upon the farmer's knowledge of the proper methods of cultivating his land so us to preserve the greater portion of the moisture that falls for the growing crop. There are a few simple rules to be observed, and if the farmer observes these rules and cultivates his land exactly as prescribed by these rules, success is almost assured. Trouble, however, will invariably come to the one who does not observe the rules implicitly.

THESE RULES SPELL SPECESS.

On the two British Columba Dry-land Farms referred to above we have laid down a of rules for the handling of the land from the breaking of the sod until the harvesting of the crop. These rules were followed implicitly. With the limited rainfall us reported above at 105-Mile House, wheat yields range from 18 to 40 bushels per acre, oats from 87 to 96 bushels per acre, barley from 50 to 50 bushels per acre. At Quilchena, wheat yields range from 20 bushels to 48 bushels per acre, oats from 64 to 91 bushels per acre, barley from 70 to 87 bushels per acre, and field-peas approximately 27 bushels per acre. Every crop grown would be regarded as a commercially profitable crop; and some of the crops would certainly be regarded as extraordinary

These results were obtained, us has been pointed out above, because we followed certain rules and principles in our cultivation, seeding, and barvesting work.

RULES TO BE OBSERVED.

The following rules were issued to our two foremen at the beginning of the experimental work, and have also been followed in all of our subsequent cultivation since 1913. The rules are:—

- 1. If possible, break at least 6 luches deep,
- Never leave the field without working down thoroughly with packer, disk, and harrow the land broken during the day.
- Pack the furrows as the first operation after breaking, running lengthwise of the furrows.
 With the furrows lying compactly on the ground, the disks have a much greater cutting effect.
- 4. Follow the packer with the disks, running lengthwise of the furrows for the first two operations.
- 5. Follow the two strokes of the disk with two strokes of the harrow, also lengthwise of the furrow.
 - 6. After each and every rain give the cultivated land a stroke with the harrow.
- If the I reaking has been done in the early summer, a few spears of grass may spring up after sufficient moisture has been conserved and when the heat of summer is ou.
- 8. If this is so, luck-set the land during the latter part of August or first part of Seplember. After the lack-setting a single stroke with the harrow may be sufficient to bring the furrows back to very excellent tilth.
 - 9. Again follow each and every shower with a stroke of the harrow.
- 10. In districts where a heavy winter snowfall has to be depended upon for a considerable portion of the moisture, it will be found to be benedicial to ridge the land crosswise of the slopes. By this means the melting snow in the spring is caught by the ridges instead of running directly down the slope and off the cultivated field.
- 11. In the spring, as soon as the frest is out of the ground a few biehes, and if the surface of the ground will admit the team and harrows without "puddling," it will be well to give the area a stroke with the harrows.
- 12. If the snow has been heavy and if the surface of the ground is packed, it may be found advisable to disk the land once, so that the seeder may put the seed in to the proper depth.
 - 13. Press the seeder-levers well down so as to drop the seed deeply into the soil.