



When a baby smiles in its sleep it is the mother's fond belief that an angel is kissing her. No woman obtains the supreme joy of womanhood until she knows the caressing touch of a baby's fingers. No woman knows the supreme sorrow of womanhood until she sees her baby in the cold embrace of death.

Thousands of women daily achieve womanhood's supreme joy, only to meet, a few days or weeks or months later, its supreme sorrow. This is because so many babies are born into the world with the seeds of death already sown in their little bodies. If a woman would have healthy, robust children, strong and able to withstand the usual illnesses of childhood, she must "look before she leaps."

If a woman will take the proper care of her health in a womanly way, during the period of prospective maternity, she may protect herself against much pain and suffering and possible death, and insure the health of her child. Dr. Pierce's Favorite Prescription is the greatest of all medicines for prospective mothers. It acts directly on the delicate and important organs that bear the burdens of maternity and makes them strong, healthy, vigorous and elastic. It allays inflammation, heals ulceration, soothes pain and tones the tortured nerves. It banishes the usual discomforts of the expectant period and makes baby's advent to this world easy and almost painless. It insures an ample supply of nourishment. It is the greatest known nerve tonic and invigorator for women. All good dealers sell it. Say "No" and stick to it when urged to accept a substitute said to be "just as good as Dr. Pierce's Favorite Prescription."

"I had miscarried twice and was so weak I could not stand on my feet," writes Mrs. Missy Smith, F. J., of Lowell, Lane Co., Oregon. "I took two bottles of Dr. Pierce's Favorite Prescription and now have a healthy baby and am stronger than for twelve years."

The quick constipation-cure—Doctor Pierce's Pleasant Pellets. Never gripe. Accept no substitutes or imitations.

Preparing Land for Wheat.

By Henry Stewart.

"It has been said and proved so often, that weather and season are of secondary importance to the good farmer whose soil is prepared in the best manner, whose land is well manured and whose seed is sown in good season, that it has become an axiom in the practice of agriculture, and when one sees a good crop in an unfavorable season, the idea immediately occurs to the practical man that the soil has been prepared in an excellent manner. The question, then, occurs how should the soil be prepared for the wheat crop, so that it may be able to resist the danger of an unfavorable winter, and evade the risks and losses to which the crop upon ill-prepared soil is exposed. In considering this question the peculiar character of the wheat plant and the effect of exposure to an inclement season are the two main points for study. Wheat has a peculiar habit of growth. Under favorable conditions, the plant throws out two sets of roots, one in the subsoil from the seed and the other at the surface from the crown of the main root. When the soil is thoroughly pulverized to a sufficient depth, which should be not less than three inches, and the seed is deposited about an inch and a half below the surface, there grows an upward soire and a downward root. The root is the principal thing. Upon the necessary growth of this, depends the nutrition of the plant and the formation and strength of a certain secondary set of roots which are not injured by the alternate freezing and thawing of the soil, or the intense cold of an unfavorable winter. The main root descends into the soil and a set of lateral roots spread from it in every direction. These are the feeding roots of the young spire which form a single stalk. But the habit of wheat is to throw out a large number of side roots near the surface of the ground, and from these roots the secondary shoots or stools grow and form the fully developed plant. A healthy wheat plant growing in good soil, well prepared for the seed, will throw out from 10 to 40 or more of these offsets and form a strong bunch or stool which takes an exceedingly firm hold upon the soil. Such plants are not injured by the severest weather during the winter, because the roots are strong enough to resist the heaving action of the frost; and because they have a firm hold upon the soil and the abundant herbage also protects the soil and prevents it from being acted upon injuriously by the frequent changes of the weather.

Now this growth of root and plant cannot take place in the soil unless this has been properly prepared and fitted for it. Nature works always according to rule. Plant growth takes place in accordance with precise and inflexible conditions. The principle involved in this unfailing law of nature has been clearly laid down in the

words, "men do not gather grapes from thorns, nor figs from thistles," and it is equally true that men do not gather good crops unless they comply with all the laws of nature, and provide the right conditions for plant growth. And as regards the preparation of the soil for a perfect growth of the wheat plant we find that it is necessary to have a perfectly mellow seed bed of compact soil to a depth of at least three to five inches in which the root growth required for a good crop of wheat can take place and in which the roots may so spread and take firm hold that they cannot be seriously injured by stress of weather in the severest winter.

But, it may be asked, why it is particularly necessary that the soil should be thus pulverized and mellowed to fit it for the growth and safety of wheat? There is always a good reason for everything, and there is a reason, or several of them, for this. Roots require to be in close contact with soil or they will perish as soon as the soil becomes at all dry. Finely pulverized soil will hold moisture, but it will not hold water. Moisture is finely divided water. When water is thus finely divided, it will not form ice; the moist soil may freeze hard and solid, but there is no ice and no irregular expansion which occurs when water freezes, and which ruptures the roots, and heaves the plants when the wet soil is frozen. Coarse soil parts with its water very quickly because of the large quantity of air held between the fragments and which soon absorbs the water and leaves the lumps hard and dry so that the roots perish and the plants are "winter-killed," as it is called. Or in the freezing of the water contained between the large particles the roots are torn apart, and the plants are left loose upon the surface, withered and dead. One more reason may be given, which is a most important one. Plants—as animals do—live by food; and they reach their food by sending out roots in search of it. They get no food in any other way. It follows, then, that the more roots a plant has, the more food it can acquire from the soil; and equally, the finer the soil is, the more roots there will be, and the more soil and plant food they will come in contact with. We might illustrate this fact in a simple man. A lot of fowls are shut up in a place where a quantity of wheat is kept in sacks, and no other way of procuring food is offered to them. Necessarily they must subsist upon the few grains they can pick out through the meshes of the sackcloth. They would soon starve. But let us tear open these sacks and afford access to the grain, and the fowls will soon fill themselves. Precisely in a similar manner the farmer who offers to his wheat plants, the richest soil, in the shape of hard lumps and clods, will find his crop starving in the midst of abundance, and being weak and unable to resist severe cold or hardships of the winter, they perish. But if the farmer breaks up these hard lumps of rich food, his crops revel in abundance, and grow and thrive luxuriantly, and laugh at the rigors of the season; either the cold and floods of the winter, or the heat and drouth of the summer. Of course, the very same principle applies to the manner given to the wheat which should be equally well pulverized and mingled with the soil.

It has been a too common practice among agricultural writers and teachers to make farmers believe that the frosts and thaws of winter will do this work for them, and will crumble down the soil and make it fine and mellow and fit for the needs of the wheat. Alas! this is a fatal mistake; and is opposed to fact and all precedent. The farmer who depends upon nature to do his work will always be disappointed. Nature is opposed to man, and has been since the time when it began to bring forth thorns and thistles to compel him to labor. Man's life and work are a constant struggle with nature, and he who strives the best, will have the most success in his work. The farmer, therefore, must use every means in his power to aid and assist nature to do his work, and in regard to the preparation of the soil for his wheat crop, he must do this by first enriching his soil, and then bringing it into the condition of fineness, mellowness and firmness which the wheat plant requires.

The universal testimony of the best

FOR ALL WOMEN

NINE-TENTHS of all the pain and sickness from which women suffer is caused by weakness or derangement in the organs of menstruation. Nearly always when a woman is not well these organs are affected. But when they are strong and healthy a woman is very seldom sick.



It is nature's provision for the regulation of the menstrual function. It cures all "female troubles." It is equally effective for the girl in her teens, the young wife with domestic and maternal cares, and the woman approaching the period known as the "Change of Life." They all need it. They are all benefited by it.

For advice in cases requiring special directions, address, giving symptoms, to the Ladies' Advisory Department, The Chattanooga Medicine Co., Chattanooga, Tenn.

THOS. J. COOPER, Tupelo, Miss., says: "My sister suffered from very irregular and painful menstruation and doctors could not relieve her. A box of Cardal entirely cured her and also helped my mother through the Change of Life."

farmers, is in favor of this thorough working of the soil, and its exceedingly profitable results. Wherever the culture of the soil is perfect, crops are large, and this thorough culture is the key to successful growth of wheat. It costs money, no doubt, to do this work and more especially when the common harrow is used. Some good farmers have harrowed their fields five or six times at more cost than that of the plowing. Many farmers are staggered at this labor which by reason of narrow means, is impossible for them. But then there is an implement now in extensive and successful use which eases this work in the most thorough



"ACME" PULVERIZING HARROW, CLOD CRUSHER AND LEVELER.

and effective manner, and thus brings within the means of every farmer the ability to fit his land for the wheat crop in such a manner as to secure a good yield in spite of weather and season. This implement, whose great value we have learned during several years' work with it, is *The "Acme" Pulverizing Harrow, Clod Crusher and Leveler.*

This excellent implement which was invented, and has been constantly improved since its invention, by one of the most successful agricultural mechanists of the age, Mr. Frederick Nishwitz, is, like most others of the most useful inventions, very simple in its construction. It is, therefore, easy and effective to work. It is of easy draft, and gives no more labor to a pair of horses than a common harrow, while for the same labor it produces ten times the effect. This it does by its special character, for it cuts the soil, pulverizes the slices, turns and levels them and leaves a perfectly level, smooth, fine and mellow seed bed, as deep as the coulters and cutters have been set to work. This may be two inches or more. It also cuts up and spreads the manure, and mixes it with the soil, the advantages of this are too obvious to need pointing out particularly. It is also an effective implement for covering the seed, and it does this as well as a drill can do, and avoids some of the faults of the drill, as for instance, there can never be any missed rows and all unevenness in the covering is avoided, because the "ACME" Pulverizing Harrow can be set to work at a certain depth. It moreover gives one more working of the soil at the last moment, and so destroys another instalment of weeds.

Where, from the necessities of the farmer which prevail over a large portion of the United States and Canada, it is desirable or necessary to sow wheat upon the corn stubble or potato ground without plowing, the "ACME"

Pulverizing Harrow will fit the soil better than any harrow or any amount of common harrowing can do, because it levels down the ridges, cuts up and mellow the soil to a sufficient depth to cover the seed and so avoids the risk and loss which are sure to occur more or less with the common method of harrowing. And just here is one of its many special advantages; because it conforms itself to the necessities of thousands of farmers without changing in any radical manner their usual methods which cannot easily be varied; and moreover it does this improved work without requiring any more labor or any extra expense over the common harrowing.

In conclusion, the writer would say that he has the present year passed over many hundreds of miles through a great wheat belt where this crop follows corn, and in which thousands of acres have been plowed up and the remainder has not made half a crop. From his own experience in preparing corn stubble for winter grain without plowing, by the use of the "ACME" Pulverizing Harrow, he is quite free to say that had this implement been used instead of the common harrow, the loss of wheat by the hard winter would have been trivial, and that many a single acre which has not returned the seed sown upon it, might easily have made enough grain to have paid the whole cost of this implement. For, as a rule, the richest bottom lands where forty bushels to the acre is expected, have suffered the most for want of the sufficient preparation of the soil which might have been secured by the use of the "ACME" Pulverizing Harrow, Clod Crusher and Leveler."

"Much controversy has arisen in years past, and still continues among farmers and writers as to the value of summer fallows. Such fallows are of course not needed where the land is already free from weeds and is in perfect condition. Even when necessary for cleaning the ground, they frequently fail of their purpose by being inefficiently managed. They receive one or two plowings only during the summer. The surface hardens into a crust and becomes a mass of clods when plowed; and weeds are allowed to grow and seed the land. The time required for repeated plowing prevents the necessary work. But with the *Acme Harrow*, work even better than plowing may be performed in one-fifth of the time—sliced up, killed, and the operation repeated so often that the field will be a clean mellow bed by autumn.

"The writer of these remarks has for years given this harrow a thorough trial, and none of these statements are exaggeration. Yet it may fail in its purpose under certain conditions of the soil; for example, it cannot pulverize into mellow ground a bed of mud. But for all the purposes in which rapid and efficient pulverization and preparation of land are required, it has proved itself to be an implement of great value, and especially in causing a greater increase per acre to the wheat crop throughout the country."

J. J. THOMAS.

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We hereby warrant each and every part of each and every "ACME" Pulverizing Harrow against breakage, for the term of one season after it leaves the manufactory or any of our storehouses—and we hereby authorize agents and dealers to FURNISH FREE NEW PARTS TO REPLACE BROKEN PARTS; the only stipulation being, that the farmer demanding such parts shall sign a statement that the breakage occurred in fair usage.

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Robbing God. "Will a man rob God?"—Malachi 3:8. Well no, that is if he is a good free silver Democrat of the Bryan persuasion. But if he is a gold bug-Republican you can truthfully and without malice say that he will. The proof is at hand. The Lord has sent the early and the later rains. He caused waving harvests to ripen in a generous sun for the reaper's sickle and song. Lowing herds grow fat on His bounteous feeding, and lusty fruits aglow with the colors of the rainbow make glad the heart of the husbandman. Our mighty rivers and lakes bear upon their bosoms the interchangeable commerce of an Atlantis beyond the sea. The nations sing joy and they that are afar off and starving are fed and made happy; and His praises like sweet perfume rise with every morning sacrifice.

But here comes those sons of Belial and joining themselves into the company of the righteous like the baser sort at Ephesus, and declare that it is not the Lord of Hosts who has done these great things and brought prosperity to the people; but with base and wicked purpose say that it was Dingley Bill, the son of Molock, who has brought all these things to pass.—Chillicothe Constitution.

A NEWSPAPER man in Ohio recently brought suit against 43 men who would not pay their subscription and obtained a judgement in each case for the amount of each claim. Of these 28 made affidavit that they owned no more than law allowed, thus preventing attachment. Then under decision of the supreme court they were arrested for petit larceny and bound over in the sum of \$3,000 each. All but six gave bond, and the six went to jail. The new postal law makes it a larceny to take a paper and refuse to pay for it.—Ex.

JACKSON, Miss., has a chain gang composed of eight negro women. They clean streets for ten hours a day.

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