

Wheat.

BY EDWIN REYNOLDS - FOND DU LAC COUNTY, ground should first be in a sufficiently dry WISCONSIN.

THE SOIL AND ITS PREPARATION.

subsoil, the surface overlaid with vegetable Spring. mold such as prairie, bordering on the burr- Cultivate across the plowing, lapping one oak openings, common at the West. All clay half, or use a thirty or forty tooth drag with soils of the West will bring good wheat for the furrows, also lapping one half. The comthree or four years without manure, but it is mon practice of cross dragging will uncover better not to take off more than two or three more grain than it will cover up, therefore crops without manuring. Barn-yard manure the dragging should be all done one way. To made on the farm is the best general fertilizer make the work complete, pass over it with a for wheat. When the land is much worn, two heavy roller. Where a roller can not be had, bushels of lime, and three of salt to the acre, a brush drag made in the following nanner, is probably the best and cheapest fertilizer answers a very good purpose: Take a straight that can be used. Plow in the Fall from 4 to pole, five or six inches through, and bore holes 10 inches deep, and sow on the lime and salt about eighteen inches apart, into which inin Spring. Fall plowing often brings from | sert bushes or small trees 10 or 12 feet long, five to seven bushels of wheat to the acre with as branching tops as can conveniently more than Spring plowing. Deep plowing is be found. Then fasten a rope 16 or 20 feet the best, as it lets the frost deep into the soil, long from one end of the pole to the other preparing it for a crop the coming season, forming a bail, to the center of which attach and destroying many seeds and insects.

SEEDS.

the Canada Club, the Canada Fife. The Rio Grande is an excellent kind for bread, but does not yield equal to either of the above named varieties. A variety known as the China, or Australian, is being introduced and promises well; it resembles the Rio Grande. in the Fall.

SELECTION AND PREPARATION OF SEED.

Many ways are practiced. The best mode is as follows: Select the best and cleanest portion of the field, and let it stand until thoroughly ripe; out and shock until quite dry, and thrash with a flail. (Thrashing with a machine often cracks the largest and hest grains and destroys their germs.) The seed, though selected as thus directed, should be carefully prepared. The best way is to procure two barrels, two corn baskets, a washtub or a half barrel tub, a large dipper, and a half bushel measure; also plenty of salt, and one ounce of blue vitrol to each bushel. Place the tub in a convenient place, and a barrel on either side. Make four to six pailounces of pulverized vitrol to the pailful. Fill the tub with brine, leaving space enough for one half bushel of wheat. Commence wash- is a very important part of wheat raising. ing by pouring a half bushel of wheat into From the time the wheat begins to turn, the the tub near one side, in a small stream to farmer has much anxiety. His fields are seed perfectly, then pour the contents of the Wheat cut too green will shrink, and if too ing the heads in the opposite direction from derstand their business. tub into the basket upon the left-hand barrel, ripe it will shell. But there is little danger the other, letting the heads cover the bands The farmer should have hands enough at and let it remain there until another washing of making the mistake of cutting too green. of the first one. Wheat shocked in this way thrashing to relieve him from any fixed posiis ready, when it must be thrown in a pile on Most wheat is cut too ripe. The earliest will stand a long time, and any storm, except tion, so as to make himself a "spare hand." be done in stormy weather, as the seed will should be done with neatness and dispatch. when set two and two. Should the take no harm by lying in the pile for a week | Never purchase a reaper until you have tried | grain be very ripe and dry, four- ... or more. Lime may be used as a dryer, but the identical machine you intend to purchase. teen sheaves may as well be put in should not be mixed with the wheat until the Reapers of the same manufacturer will not a shock as ten. morning you commence sowing, as it will eat | work equally well, therefore try different ones, out the chit if left too long. When washing until you get one that will do the work well keep account of the bushels washed, measure and fast. When you have a reaper keep it in the pile when you commence sowing so as to repair, and if you are not capable of doing it know how much it has swollen, deduct the vourself, put it in charge of a man that is foul mass in the basket, and by a little figur- A poor cradle, or a good one in poor repair is ing you can ascertain how much it will require the greatest nuisance a farmer can have in to the acre to use the same quantity as if dry. his fields, except a poor hand. A cradler Seed cleansed in this manner does not require should understand keeping his cradle in workso much to the acre as when sown filth and all. | ing order, for a cradle or rather its fingers

SOWING.

Should the ground be very uneven, it should be dragged down with a cultivator or thirtytooth drag, in order that the grain may be covered evenly. Sowing with a seed drill is best, for the reason that it puts all the grain in at the same depth, whereby it all comes up at the same time, and ripens more evenly than when put in with a drag or cultivator. But all farmers are not forehanded enough to purchase a drill, and some must continue the old way of sowing. Many inventions for sowing have been scattered all over the countrysome very good ones. I know of no better to feeding the bundles into the thrashing ma- grower. advantage.

shoulder. A man can thus sow in any wind. COVERING, HARROWING-IN, BUSHING, ETC.

A cultivator in the form of a V, does very good work, but a still better one coming into use in these parts is, rectangular, three feet Extracts from a Prize Essay on Spring wide and eight feet long, with a cross-bar holding each tooth in its proper place, and furnished with a roller at each end. The state; as wet, clammy ground makes hard work for the team, and it is left in a poor condition for a crop. Sow from March 20th to The best soil is clay loam, with a gravelly April 15th, according to the lateness of the

the team. One horse can draw the drag, and a boy ten years old can drive it, and do the work. The pole mashes the lumps, and the The best varieties known in the West are brush whips the dirt into a fine state and leaves the field very smooth, and is better for land in a wet state than a roller.

AFTER TREATMENT AND INSECTS.

should be pulled out, where it can be done ones .- ED. without trampling down the wheat. A hooked knife attached to the end of a long pole can be used to a good purpose in cleaning fields, by walking through the dead furrows and reaching to the right and left cutting off the oats and foul stuff close to the ground, letting them fall in the grain, unless ripe enough to germinate, when they should be picked out and taken off. I know but little of insects, as nothing troubles our wheat but Chinch bugs. I know no remedy for these. Lime and salt may cure them as effectually as any thing. They evidently do not like the salt. Early sowing of the early varieties may be practiced with good success in gnarding excepted.

THE HARVESTING

want altering in changing from light to heavy grain, or from wet to dry grain. Then again the scythe may be too long so as to cut more grain than the fingers will gather; in this case cut off the point of the scythe, and if the fingers are too long serve them in the same way, otherwise they will haul in the standing grain and make hard work, and at the same time a waste. And this is not all—the grain thus pulled down will lie under the next swath and hinder the binder.

BINDING.

hand. The bag should be opened at the hand just below the heads; divide it with the large the bottom but press the heads inward mouth by a hoop sewed into it, tie one lower right hand; pass one half around the other setting the buts out until the bottom will corner to the mouth and sling it over the and over the thumb; take it in the right, near measure sixteen feet across, bringing the outenough to the middle to clap the thumb on the side course quite flat. A few rails or boards heads, and thus hold them firm. Place the may advantageously be used under the stack. band over the bundle, and at the same time Now commence on the outside, laying the secpass the left hand under it with the back next ond course upon your knee, putting your the ground, grasping the lower end of the whole weight on each bundle and packing them band half way from the heads to the tie, and firmly together. The second row must be draw it under the sheaf, as near the middle as placed upon the first, covering the heads of possible. As the tie in the band becomes the first and laying the buts even with the firmly set against the sheaf, slip the hands to- bands, if the bundles are of ordinary size and gether, holding on with the three lower fin- length of straw. Should the straw be long gers of the left hand, draw the end in the and loose, cover the bands from sight; if short, right hand between the thumb and forefinger leave them in full view pressing them firmly of left; then tuck the ends under with the thumb with the knees, and continue to go around in of the left hand; throwing it a little back, this way until the centre is reached. Keep then clap your rake on the but of the sheaf, constantly in mind that the centre must be draw it towards you, dropping the rake off kept full and solid. To effect this more perthe bundle on the ground so as to catch the feetly, the outside rows may be laid loosely scatterings and pass on to the next. What I and packed a little as the centre is approachhave been so long in describing can all be ed, so that when the stack settles the outside done in half a minute. Binding done in this course may settle faster than the centre. way will stand the test of handling, and every thus giving the buts of the outside courses farmer knows it must undergo a good deal be- a downward inclination, which will fore it reaches the thrashing machine. Just carry off the water perfectly. Build the stack consider, Mr. Binder, how much you may perpendicularly four to six courses; then lay hinder the operations of the harvest by slov- out, very slowly at first, five or six courses enly binding. The sheaves must be carried more; then three courses, one above the othtogether, perhaps by boys, then shocked and er, after which draw in, gradually at first. As capped; next pitched on the wagon or cart, soon as you commence drawing in, fill the then pitched to the stacker on the mow, middle fuller or pack tighter. A stack may thence to the band cutter. Should only one be rounded off on the top, for convenience, and bundle in twenty give out in passing through be perfectly safe from wet, by capping with all these various moves, it wastes much time hay or straw. If carried to a peak, a cap and grain. One man stopping to bind a bun- can be made of a sheaf and put on buts up. dle hinders not only himself but another man It is very inconvenient to put a sharp top and team. It requires much time to gather on a large stack, oftentimes requiring a third up the scatterings, and these put into a stack hand, and the work is no better. often causes it to slide out of shape, which | Should your stack become lower on one side lets in the water and sometimes destroys a than the other, avoid the foolish practice of large quantity of grain. Then, again, the laying on two courses, for by doing so you Very little is to be done after sowing a well thrashing is hindered, as it takes much longer often cause a slide, but pack the lower side cultivated farm. Clean out all brush or stones to thrash loose grain than bound. A tighter, and the opposite looser until your That the entire harvest may not ripen at the in the way of the reaper. Should the weather thrashing machine running at half speed hin- stack is level, then proceed as before. The same time, different varieties should be sown. be dry, fields that were bushed may require ders half the time of ten or twelve hands and pitcher should have his mind on his work and First the Club, second China, third Fife. rolling. This depends on the state of the eight horses, and all in consequence of a poor keep a constant watch of the stacker. Care The sooner wheat is sown in the Spring the soil. Should it appear too light and mellow, slovenly binder. Brother farmer, just watch should be always taken not to throw the bunsurer the crop, and the better the grain- don't be afraid to put on a good heavy roller, your binders, and if you can't persuade them dies on the outside course, after the stacker is another reason why the land should be plowed even after the wheat is six inches high. to do their work well, pay them off and let off, and before the second course is placed up-When heading out, all oats and foul weeds them tramp. [Provided you can get better on it, for the reason that it may get a start

SHOCKING.

Large fields of wheat are often seen thrown together, two and two, and then, in conse- the second bundle until the first is disposed quence of the hurry and scarcity of hands, of. Mowing away wheat in barns I say noththe grain is allowed to remain for weeks, and unless a man is employed to go over the ground after every blow or rain, it must damage to a considerable extent, for the heads can not remain long lying on the ground without growing. By wetting and drying a numcalled among farmers being "banged."

shocks and capped with a double cap. Com- ing machines and go forth with all confidence the floor. Fill the tub from the barrels and sown fields should be visited from day to day, a hard blow, without damaging. It will dry This gives him an opportunity to look around keep good watch of the bottom of your bar- the kernels examined, and as soon as the out in a shorter time than if set two and two, and see that the work is well done. Examrels to see that the supply of salt and vitriol wheat is out of the milk, and fairly in the for the reason that water can not penetrate ine the straw, and see that the wheat is is constantly kept good, as otherwise the dough, cutting should commence. Wheat cut any part of the shock. Wheat cut very green thrashed clean; examine the seive and see brine will soon become so weak that it will in this stage is whiter, will weigh more to will cure in this way as soon as any, as any that the wheat does not blow over in the not float the heaviest oats. The vitrol acts as the bushel, yield less bran, more and better one can see that all the bands are left to the chaff. Look to it and see that the wheat is a preventive against smut, and the salt will flour, and sell better-as is well known to all air. It will not shell as badly when handling, not cut by the cylinder, and if so, order the pay its cost as a fertilizer. This work can who have tried the experiment. Cutting and is not exposed to birds and vermin as concave lowered.

STACKING, ETC.,

requires care, skill, watchfulness and cautious judgment. The careless and slovenly manner in which stacking is often done is the thrown hurriedly and losely together are sure to damage, unless the wheather holds dry for ten or twelve days until the stacks are sufficiently set to shed water. Farmers are often deceived in stackers. Men coming from a distance to work in harvest, and anxious to make as long a job as possible, "crack themselves up" as stackers; they are set to work, and the farmers knowing them to be good hands otherwise, have confidence in them, and thrashing time, lo and behold wet stacks from top to bottom, three or four hundred bushels of wheat to be kept separate and dried; then, after two or three weeks of perplexing care, and loss of time, he has that amount of damaged grain for market, which

outward, throwing the stack out of shape, so that it will settle with a shoulder and make a leak. Always throw the bundle in the most convenient way for the stacker. Never throw

THRASHING.

ing of, as it is sefe in almost any way, but is

done most conveniently in regular courses.

Probably no work is more dreaded by the farmer than thrashing, why it is so, I hardly ber of times it becomes bleached, the bran know, unless for the reason that there are so shrivels, and the grain loses its vitality- many slovenly, lawless thrashers. The remarks made on running a reaper will apply to Grain of all kinds, and more particularly the thrashing machine. Farmers that know spring wheat, should be put up in round anothing of machinery often purchase thrashmence by setting four bundles in a square, imaginable, but soon, for want of care and the and then four more, one in each corner thus: requisite knowledge of their machine, it be-* setting the buts firm on the ground and comes rickety and badly worn. Thus delapi-* * pressing the heads together. Select two dated, stoppages frequently occur, making * smallish, long, slim bundles, break one the job long and tedious. One experienced prevent the grain from carrying down the closely watched, while he is preparing to per- across one arm by handfuls until the whole is thrasher that has the faculty of keeping his lighter substances to the bottom. Skim off form the hardest work of the season. Every broken. Then lay it on the shock, spreading machine in repair, is worth more to a farmwith the dipper and throw the skimmings into thing must be put in perfect order. Help the heads and but as much as possible. Then ing community than six of the opposite stripe. the basket placed on the right-hand barrel. must be secured, (and, what is also impor- take the other bundle and slip the band well Thrashers with good new machines are the Stir and skim until you have cleaned your tant, preparations be made to pay help). towards the but, and proceed as before, plac- most profitable to employ, provided they un-

Thrashing should never be done until the stacks are through sweating. Stacks after standing one week, commence sweating and continue to sweat about two weeks, so that it is not safe to thrash until the stacks have stood for about four weeks. Wheat thrashed while sweating is sure to be damp and liable to must in the bins: but thrashing after the sweating process is over, it is better for milcause of much loss of grain and time. Stacks ling than when thrashed before, from the fact that the bran is softer, and the flour is easier separated from it, thus giving a better yield, and whiter flour. Should your wheat be damp and it be necessary to put it in bins without drying, avoid the foolish practice of putting in lime to absorb the moisture. Throw in a few stones or bricks, which will draw the moisture from the wheat, having the same effect as the lime, and leave the grain clean and smooth; which will please the miller much take little notice how the work is done, and at better than lime and rough dirty wheat. To clean it of smut for seed roll in lime for twenty-four hours, which will burst the smut balls: then you can blow them out with a good m 11.

GENERAL REMARKS.

No farmer can succeed any great length of Poor binding spoils every thing from cutting injures his reputation as a good wheat time in wheat growing by following that branch of agriculture alone. Fertilizers must method than sowing broadcast by hand, as chine. In binding after a cradler, while rak- In driving to the stack, care should be had be had sooner or later, and the straw alone high winds prevail at the sowing season, and ling the swath into a sheaf, the buts should be not to drive the load too near the stack or hit and manure of the teams afford but a small but few machines can be used in the wind to kept against the leg and the grain slid to- it, for after a stack is once started a small jog supply. Therefore a farm of two hundred gether, instead of rolling it, so as to keep the or push may cause a slide, which will create acres should be so arranged as to keep at least The best method of sowing broadcast is, buts even and the sheaf of its proper length. a shoulder and a leak, besides making much one hundred sheep, five cows, and raise heiffirst to sew through with one hand then back A band should be made in such a way that trouble for the stacker. Commence your ers enough to keep the stock of cows good. with the other, always throwing with the one part will draw across the heads in the stack by setting a bundle erect in the centre Also raise a yoke of oxen as often as once in wind. For instance: If the wind is blowing band and hold them firm against the sheaf. of the ground on which you wish to build the six years. Keep a good pair of mares and from the south go first to the east and throw Too much straw in a band is a detriment, as stack, then set around it, going round and from them raise, occasionally, a span of colts with the right hand. Then pace off four it can not be drawn tightly enough; -no more round keeping the sheaves as perpendicular for market, or to remain on the farm. Six to paces or less, face about and sow to the west, than fifty straws should be used. To make a as possible until you have attained a diameter ten swine may be fatted yearly. From that shifting your bag and sowing with the left stout band quickly, gripe the straw in the left of about fourteen feet; still continue to en- amount of stock, if the straw is properly