dual slope dennmards and outwards till the circumlierence is reached, and the tirst layer completed. Thes untside or fonudation row should then be carefully examined, and if necessary. adyusted. If any shewes are pressing too closely together they should be reliered, and a shear wught to be introduced where any slaekness is discovered. On the regularity and uniformity of the foundiation the success of the structure is greatly dependent. Too much care, therefore, cannot we obsersed in securing a good beginning. "Well begun is half done."

Scveral methods of construction and arrangement of the sheaves are in use among professional stackers, The method indicated in our small :lastation -showing a section of the leg of a stack without the centre-filling-is in our opinion the most artistic and satisfactory. It is known as the "right aul left" process; which sinply siguifes that each row of sheaves is haid in an opposite direction. If the first row. for ceamphe, is laid "sun-way round." the third, fiffh, and so forth, would be laid in the same direction; while the second, fourth, fe., would be stached in an ai) posite manner, or covtrary to the sun. The b,at. ends of the sheaves, which acquire a certain unifurm bevel ly standing in the field, are very favourable to this system, and when they are arranged sumewhat obliquels, with the longs side plased in front, and the bereled side touching the last laid sheaf, a very handsome structure may be reared. When a conple of outside rows have been thas laid, an inside one is formed. The but-ents of this course should rest on the outside sheaves a litte within the band This serves to secur the sheaves forming the circumfer ence in their places, and keeps the heart or centre of the stack mather higher than its circumference. This precaution is of the first importance, as the inclined position of the outside sheares prevents the rain finding a passage along the straw into the heart of the stack, which it would otherwise be sure to do. It will be obrious that the number of rows requised to fill the body of a stach depents on the length of the straw and the diameter of the stathel. For sheaves not longer than fire feet, a diameter of fiftern feet is well adaptrd. With thes dimensions, a stack will be sufficiently filled with one inside row and a fer sheares crossing each other in the centre. When the grain is longer than this. the diameter of the stack should be at least eighteen feet. The same method of procedure is repeated-outside and inside alter-nately-till the lere is of sumficient beight ant the care-row is rearhed This row is laid so as to project tro or three inches begond that immediately under it-the objeet being to carry the rain-drip from the top clear to the ground. In building the top. cach successice row of outsille sheaves is placed further in than that preceding, so as to give the slope an inclination simalar to the pitch of a house-ruof. The long bevel of the sheaf from the eave row to the top is invariably laid undermost, and its slanting form is very farourable for the gradual contraction. When the top is thus drawn in to a diameter of four feet the stacker quite the linerling posture in which he has hitherto worked. and places one sheaf upright in the centre of the small piatform, filling the whole of that space with upright sheares set around the centre one, and leaning a little towards it The top sheaves are then secured by a rope, and the stack is ready for thatching.
It is almost unnecessary to say that when the stack has reached a height sonewbat above the head of the tramster it is impossible for him to pitch the sheares so as to be convenient for the stacker. A boy should be emploged to hand them, as the stacker cannot rise from his knees to take them rithont a considerable loss of time, and at the risk of making liad work.
There are several recognized methods of thatching, as well as a varicty of ways of arranging the ropes to secure the covering. We will content ourselves by describing what we deem the most secure and workmanbke process-merely adding that except in the case of an arrant sioven well dramn wheat straw
is invariubly used for the purpose. The thateler standing on a lader long enongh to reach to the top of the stack, with a supply of drawn straw beside him, commences operations at the cavea. He takes a large handrul of straw and gathering one end of it into a neck or wisp thrusts it into the buteend of a sheaf, and spreads the lower end like a fan overhang. ing the eaves. In this position he covers as far romad the circumfereuce as he can reach at arm's length. Ile then works upwards, causing each successive handfal to over-lap that immediately below. He thus covers the roof by triangular portions till he has gone round the whole backwards, in order that he may aroid treading on his work. Our illustration exhibits two methods of arranging the ropes to secure the thatch; but if preferred the plan shown on the round haystack, at page 176 of this Volume, may be alopted. For ourselves, we prefer the diamond or lozenge arrangement shown in the completed stack on the luf of the large cut illustrating this artiche. A clance at the detail thus shown will render any further insiruction superthous Wir will therefnre only add that the projecting straw of the thatehing should be cut evenly off, and that in every instance a stout rope should be securily tied round the stack immediately below the eares. To this eare or waist rope, all the other ropes are attached.

## Worl for August.

Br the beginning of this month, if the weather has been propitious, and the farmer has used proper energy in pushing on his work, the greater portion of the hay and grain crops will have been secured. Where harresting has get to be done, last month: directions will still be applicable. Oats in many places remain to be cut. This ought to be done hefore the grain is quite ripe, to enhance the value of the straw, and prevent the grain from shelling out. lioot crops will now have got beyond the need of further hocing. It is not, however, too late to sow white turnips where the Swedes have failed, or where there is a patch of ground that from any cause is vacant. sown the first week in Augast, a taur crop may be expected if the land is in tolerable condition. It is too late to sow auy grains now, except millet and buckwheat, and it is only now and then in very farourable seasons that these will do any good. The millet has scarcely time to come to any size for profitable fodder, and early frusts are lihely to kill the buchwheat betore it matares. Those whom the midge has not frightence out of growing fall wheat, will improve all their spare time in preparing the land for that crop. We recommend a trial of the milge-proof" wheat. It is well to harron stabble ground, that the seeds of weeds may germinate, and the next ploughing turn them under as green manure. Harvest tools when done with, shonld be thoroughty cleaned, well greased and carefully housed. This is the season when weeds ripen and scatter thrir seeds. Any destruction that can be visited unoa them is a tenfold gain in view of their speedy increase. August is a good month for manuring grass lands with fine well-rotted manure. During this month the sheep gad-fy, -the caner of grab in the head,-is troublesome. An occasional smearmg of the sheens' noses with tar is recommended.-also that they have access to ploughed ground The garden and orchard will now berin to yichd duir increase, and but little needs to be done except to gather in the returns as they become ready. Insects may still be watehed for, especially the borer which lass its eggs about this time. The grub suen hatches and works into the tree. Probe lim out. A smearing of sont soap round the base of the tree is recommended. Give the bees ample room to store th.ir sweet treasures, by providing surplus boxes where needed.

2ata cubic yard of farm-yard dung weirins one ton on the average if made in cattle boxes; if in the yard.
it weighs a fourth less.

Modification of tbe Drainago Priza Scheme.
Tu the Eliour of T'u: Cisama Fame:s
Sin,-I have real attentively the letter of $W$. Wilkiason, in your issue of lat July, and observe the suggestion he makes in reference to the " drainage prize fund." liefore deciding to comply with it, I thought it might be well to write to Mr. Johnston, of Gencra, who has had great experience in draining, and get his views of the matter. I have done so, and received from Mr. J. a letter of great interest, which at a future time I may seat yout for the benefit of your readers. In the meantime let it suffice to say that he coufrms the statement of Mr. Wilkinson, that tiles of 2 to $2 \frac{1}{2}$ inch bure, are large enough for all lalcral drains, but as for mains, it is of great intportance to have them large enough. Mr. J. has tiles in his mains as large as ? inches, semicircular, but laid face to face so as to make a pipe 9 inclies in diameter. Another of his leading mains consists of ino tincin thes, placed \& inches apart, and over and resting on them, :t ! inch half romat. It may be latel down as a rule. that winerever two laterals meet they should emply themselves into a of mel, and wherever two or mote $b$ meh drans mect or discharge, it should be into a capacious main.

It shoikh he remembered in constructing this main. that it has to discharie an chormons qumtity of water. A fall of rain amounting to thee incles. is equal to about one thonsanil hogslicads per acre. I beg. theretore, to modify my proposal for the preminim referred to in the issue for the lst of Junc, as follows:-

The preminur to be paid to the person putting in the greatest number of rodr of drains, haid cither with tite or stone, two-inch tile to be the standard. Those laid with tiles 3 to 5 inch, and laterals laid with stone. to count as 13. Mains had with tiles over 5 inch, or stone, to count as 2. Thus:-


320 rods.
The drains to be not less than 30 inches deep-for uccasionally persons hise committed suicide fur de sake of the insurance! I include stone because 1 thinh it makes as good drains as tiles, and my object is not primarily to promote the manufacture of tile, hut the improvement of the land, and the prosperity of the farmer.
Beansille, July 11, 1865.

## About Binding Grain,

Tamen is considerable diversity anong farmers in the mode of binding their grain after the cradle or reaper has performed its office. It is difficult, willout grain to aid in the illugtration, to explain any system of binding.-hence what fullows maty prove tou obseure to be instructive or benefleial.
There are substantially but two method, of arain binding, to wit, under the hand, and over the thamb. The first dues its work well. but is slovo ; the last does it eqhally well and is fast, and hence the preferable one. This only will be considered, and it possible evplained. Jet the binder, on approaching the gavel, take material for the band from the top, and not pull it from the centre, as is often done to the derangement of the balance; hold it up in front in the Joft hami. clasped direetly around under the heads of the grain; with the right hand part the mass in the centre as nearly as may be ; pass the right hand quickly under and orer the left till the two sections of the band arw sceured together between the fingers and thumb in form resembling the last character in the alphabet. Change the bam, now completed, to the right hand, passing one enh of it quickly under the gavel to the left, letting the end project upwards between the thumb and fingers ; give a smart upward pull with the right hand, letting the band run in the hollow formed hy the thumb and forcfinger; with the right give the hand oue swing or twist, and with the thumb, or whole hathe pass the twisted end under the band, and the work is done. This explanation may not ee very lucid, but a few trials will rehder the operation as easyas its practice will beexpeditious and satisfactory. Take tro men of equal plysical ability and practice in grain binding; let one bind under the hand andi tho other over the thumb, and the latter will perform one-third, if not one-Lalf more work than the former,-Iural Liew
Yorber.

