will, if moist, produce timber of inferior quality aud loss durability.
Tho beeoh requires a strong minoral soil fresh and rioh in humas. Its true home is on lime, basalt and greon-stone, if the soil is not too thin. It is ofton found with tho oak on sandy-loamy deposits, if not too dry or too moist, but on poorer and lightor soils or in exposod places it grows but elowly. Its wood is usually worth less than other hard roods in the market.
The oak depends loss on the kind of soil than on its quality, the amount of humus, and above all, of moisture contained in it. The best growth occurs in a deop somerhat loamy sand, or sandy loam, but it thrives well on loam or sand. Al. though it profors moisture, it will not grow in marshes unless drained. In forests the oak attains greator dimensions when grown with other oals alono; for it thrives best with the crown froe, the stom sheitered and in shade, aud the foot ander covering. The oak also thrives well when mingled with the beeoh, provided the situation is notexposed or the soil shallow.
The ash and elm have much in common, are found on similar soils, and may be classed togothor as regards their troatment. The true home of the ash is on rich, loose, strong mineral soils, abounding in hamus and even in binding ones, if fertile. Dry, poor soils are not suitable, and it requires a moist soil. The ash must have plonty of light, hence does not thrive so well in pure forests. It does well in beech forests, and may be grown with oak, maple, hazle, sycamore, olm, otc., with good results. In a word, these mixed forests yield in most cases a larger revenue than either of the raristies alone.

The maple delights in fresh, strong mineral soils, such as lime and besalt-in short, such as the beeol, but do not bear so much moisture as the ash or elm. The sycamore makes greater olaims on the soil in mineral strength and moisture than the maple.
In general, the effect which the soil and subsoil have on the quality of timber may be expressed scientifically as follows: The combustible tissues of timber, or those liable to docay by exposure to atmospheric or other agenoies, are carbon, oxygen, byarogen, and nitrogen. The absolutely necessary constitueuts of the ashes, or portions not liable to decay, are iron, potassium, rodium, etc., etc. It follows, then, that according as the percentage of combustible tissue exceeds that of the incombastible, the timber will be less durable, and for technical parposes, of less ralue. Therefore, soils and subsoils in which there is a fair amount of lime, potassiam, silica, ste., in a word, those rich in allalies, produce timber of the best quality; while such as contain en abundance of moisture yield timber neither of such durability nor of so high value.

## SIMPLE DIARY AND ACCOUNT.

In the farmer's life there seems less need of book-keoping than in most other callings. His salos are comparatively fow, and his purchases of such large artioles as are well remembered by their importance, or he deals with men who keep books and he trasts them. Yet if ho keeps no record he will be often perplexed to know where and for what the money went, that ho received for grain, beef, wool or butter. It would also be a satisfection for him to know each year whether his work was as wall advanced as at a similar dste in provious years, or whether his barns at mid-winter, or at any date, hed as much fodder for stock as at a similar date in past wintors.

I have kept a daily record of work and a cara. fal account in income and expenses the past twenty-fiveyears. I havoused booksof variunssizes and with different methods, but like my present
way best. I have a blank book about $7 \times 12$ inohes, and with 280 pages. On oach page are thirty-soven lines below the headlines. As the book is open I uee the right-hand page for a daily rocord of work and use one line a day, so after dating thirty lines for a month's calondar I have six or soven linos for genoral memoranda. I fand one line will contain several items, and givo room for a word about the weather or figures representing temperature. The left-hand page is for accounts, and during the past two years I find overy month that the one page is room onough to give every salo and overy purchase, even when I rotail vegetables and buy groceries in small quantities.
As we open the book we have the history of a month before us. The pages are ruled so that two columns of dollars and conts can bo pleced on the right of the page, so that it is just as well to fill the page with transaotions as they occur, and place the money in its proper column as received or paid out. Some credits may not have the amounts oarried out. The month's accounts may in this way be ready to add up and balance, and if the income and outgo is not alibe, it tells the reason why. It is best to write this book with good ink. It may be well to heve other books to note the work, fertilizers, sced and harvest of any or every field. Such noto-book and pancil may be in daily use, but for the main thing I like my present way best.

## WHAT IS THE CONDITION OF YOUR CELLAR?

Is it damp, close, and filled with the disagreeable odours of decaying vegetables? If so, it is time you gave the matter your earnest attention, for you have in that locality the germs of disease, and yourself and family are liable to be prostrated at any moment. You think your cellar or basement is in good sanitary condition. Do you know that it is? Have you carefully examined the premises? Have you looked over the vetetables to ascertain their condition? We know that many serious illnesses have their origin in cellars, both in city and country, and we can do our readers no greater service than to urge them to see that at all times they are in a dry, sweet, wholesome condition. Why should farmers' families, living in the oountry, away from the pestilontial rapours of aities, be so subjeot to attacks of malignant diseases?
There is a reason for it, and wo can point it out. Thes arise from indifference to the cbservance of bygienic rules, and violation of banitary law. Cleanliness is essential to health, and is as necessary in the country as in the city. A family living over a foul cellar is more liabls to become poisoned and afflioted with illness than a city family living in a pollated atmosphere, but without a cellar or basement filled with fermenting roots and fruits. There is far more sickness in the country than there ought to be. With plenty of pure air, water, and exercies, disesse ought to be kept at bay, and would be, if a better observance of certain hygienic conditions were maintained. Brd-conditioned cellars, small, close slceping rooms, stoves-these are all agents of evil, and are fast msking the homes of farmers almost as unhealting as those of the dwellers in cities. Are not those suggestions worthy of consideration ?-Minneapolis Tribune.

## TIME AND TEMPER SAVED.

If there are any old loge or chunks lying around in the fields that are to be planted this spring, it will be profitable to remove thom at once, entirely out of the ficld, before ploughing and planting, instexd of learing them as too many do until the ploughing is being done, and then be all
the time botherod by stopping the team to turn thom out of the way as tho ploughman passes around with each furrow which frets the toam and driver, ofton, too, breaking the plough or harness and is a waste of time; so with brush and dead branches whioh fall from old dry troes, in tho fiold; thoy cause more loss of time and waste of grain than is required to remove them ontirely beforo the ploughing and harrowing is began.
So with old stumps and stones; if they are too large or heary to haul away, dig a hole by tho side of them and tumble them in, cover them bolow the furrow depth; it will be good economy in the ond.
The land will bo all the better, for many yards all around, as it will bo well drained, warm and dry ; and all crops-grain or grass-will be found to grow more luxuriantly in such spots than in other places. Besides, better still, the tompor will not be disturbed, nor the farmer riled ap.

## DEEP PLOUGHING THE BEST.

No process will more sarely preserve the productive porrer of the land thau deep, fine plough. ing, and no other mode will do it at less expense. Bringing up new soil from below and mixing it with the upper worn soil, by thorough harrowing or rolling, is about equel to renewed soil. Then the sub-soil plough, loosening the earth to a libaral depth-say twelve to fifteen inches-allows the roots of plants to run down and spread out more than shallow soil, for nourishment and moistare; this also restores worn land.
Besides, land mede mellow to this depth is not half so lisble to suffer the injuries of drouth, as the moisture can rise from below in a dry timehence plants will not foel or suffer the effects of drouth, as in shallow soil. Further, land will not suffer half so badly from excess of water and heavy rains, as the surplus water can more readily run off.

## WHITEWASH EVERY YEAR.

No person who regards the health of his family should neglect to whitemash every spring. Country places, especially farm out houses, fonces, otc., are generally improved in appearance by an annual coat, and it will add to their permanenoy more than one would imagine. It is cheap and easily applied, so that neither expanse nor labour can be pleaded against it. To be durable, whitewash should be prepared in the following manner: Take the very best stone lime and slaok it in a close tub, cover with a oloth to preserve the steam. Salt-ss much as can bo disolved in the rrater used for slacking and reducing the limeshould be applied, snd the whole mass carefully strained. A f9w pounds of whest flour mixed as a paste may be added, and will give grester duriability to the mass, especially when applied to the erterior surfece of the baildings. With pure lime properly slacked and mixed almost any color may be made by the addition of pigments. Granite, slate, free-stone and other shades may bo imitated, and without any detriment to the durability of the wash.-Florida Dispatch.
The quantity of food needed by stock varies even amongst animals of the same breed, and it necessarily varies to a greater extent among animals of different breeds. Upon this subject a farmer in England says it is sufficiently correct to reakon on a sheep consuming twentyeight pounds of green food, an ox or cow one hundred and fifty pounds, a calf forty pounds, and a yearling eighty pounds daily. At this rate one ox or cow consumes as much as five sheep. The latter will require 10,220 pounds, or nearly five tons apiece, the former 54,750 pounds, or nearly twenty-five tons of green food, for its yearly maintenance.

