is composed of oxygen and nitrogen, the latter being four-fifths of its bulk. We all know that they do take carbon from the atmospheric air, throwing off the oxygen, and it is no more than reasonable to conclude that they appropriate the nitrogen to their own.use.

If this hypothesis be admitted the application of ammonia to soils is superfluous. But again, and I will have done with this criticism. Can it for one moment be supposed that a grain of wheat can take up by absorption, a sufficient quantity of ammonia to supply the whole plant, seeds and all, with all the nitrogen required for its perfection? It must be borne in mind, while considering this question, that twelve-thirteenths of the bulk of the solution absorbed by the grain, is simple water, and therefore that but one-thirteenth of the same bulk is sulphate of ammonia, that but one-third of have it keep this season." of this is ammonia, the other two thirds being water and sulphuric acid, that about five-sixths of the weight of ammonia, is nitrogen, the other sixth ed by Mr. Campbell, and absorbing the whole of down with the ladle. the solution, will contain only one two-hundred and thirteenth of its own weight of nitrogen, a portion so inconceivably small, as to entitle the *has* made butter these twenty years, she theory of Mr. Campbell to the appellation of the does not know how to make good butter; Homeophatic practice of agriculture. It is pretty for no butter can be good until all the butwell known to chemists, that grass, hay, &c. contain one per cent of nitrogen, that is, that one hundred pounds of hay contain one pound of nitrogen. I have not been able to find any close analysis of well in any place. A very little more wheat, but it must of necessity contain a much care and labor would have made this exlarger proportion of nitrogen than grass does, on cellent butter ; but lacking that little, it is account of its possessing a greater abundance of gluten, an essential element of which is nitrogen. Therefore the additional of half a pound of nitrogen, (which is the greatest quantity Mr. Campell's theory requires,) to an acre of wheat, could only result in adding fifty pounds of wheat in the staw to the harvest that would have been yielded without it: that 1s, that this plan of manuring can only result in increasing the crop, straw and all, of an cre of ground, fifty pounds. Still, as I stated churn until now; all the work had been before, it is worth trying, because the cost of the done with a ladle. experiment is a mere trifle, and there may be things in our philosophy. In the chemical proportions from that butter, you shall have the whole above referred to, I have only attempted an ap- free." in agriculture as well as elsewhere, not dreamed of proach to the various quantities, but I believe a sufficiently close approximation to exactness has been attained for all practical purposes, especially for that in view.

Baltimore, Aug. 1844. -Albany Cultivator.

derive any benefit from the nitrogen of the air, because, say they, "nitrogen cannot be made to enter into combination with any element except oxygen, even by the most powerful chemical means." Are there not many other combinations in the vegetable organism, that the same power-ful means cannot produce, but that the chemical means of nature can and does continually ?

source against the accumulated miseries of a destitute manhood, and a disgraceful old age, is the the women's fault that we have poor butworkshop of the farm. It is useless, at this day, ter, generally, and we must hold them resfor every young man to aspire to the lot of living ponsible. It is perfectly easy to make for every young man to aspire to the lot of living ponsible. It is perfectly easy to make by his wits, for it is a task in which rew who un-denake it have the talent requisite to ensure suc-cess. How many there are at present "loafing" price, in the dullest market; while poor away the precious years of youth in our cities and butter is a drug at any price. villages, who ought to be acquiring the rudiments of some honorable and useful TRADE. Learning is butter again, just let them imagine that I by no means incompatible with the practice of the am to have a nice bit of bread and butter arts, for, the more one "knows" the more likely with them, and that I shall detect the least

## PURCHASING BUTTER.

"Is your butter good ?" said I to the farmer

" Good ! my wife has made butter these twenty years, and I should think she ought to know how to make good butter by this time."

He was evidently offended.

"Well, let us examine." The cover was taken off the tub, the clean white cloth (which had been wet in brine,) rolled up, and the yellow treasure revealed. It certainly did look good.

"It tastes sweet; but how very salt it is."

"We always make our butter salt, to

" Let us see if the buttermilk is as well worked out as the salt is in."

Some of the lumps were then pressed

"Now, my friend, (said I,) if your wife has made butter these twenty years, she termilk is worked out. If that is done, you need not salt it so bad to have it keep well in any place. A very little more only a second quality—as you shall acknowledge, when I show you a sample of good butter."

We went in, and I took up a roll from a firkin of first rate butter. It was smooth, clear, and handsome ; the hand of woman had not been on it from the time it left the

"If you will get one drop of buttermilk

"Now, taste this, and taste vour own, and say, honestly, if you would not give a higher price for this than your own. Look GIDEON B. SMITH. at it-see how clear and transparent these minute globules are, and how intimately \* I am fully aware that chemists deny that plants they are blended with the whole mass Until those all disappear, the butter will keep sweet; and no butter will keep long when they are ever so slightly colored by the milk."

> The farmer simply remarked, that there was a difference in butter, and left to find a less critical or more ready customer.

It is strange, that when everybody loves Go to Work.—There are thousands and tens of good butter, and is willing to pay for it, thousands of young men among us whose only re- our farmers' wives and daughters do not take pains to make a better article. It's

When any of my lady readers make will he be to succeed, and to do honor both to particle of milk, and am not fond of too Dalhousie, New Brunswick, } himself and the profession in which he is engaged. much salt.—New Genesee Farmer.

## NECESSARY HINTS TO THOSE THAT WOULD BE RICH.

Written by Franklin, in 1736.

The use of money is all the advantage there is in having money

For six pounds a year, you may have the use of one hundred pounds, provided you are a man of known prudence and honesty.

He that spends a groat a day idly, spends idly above six pounds a year, which is the price for the use of one hundred pounds.

He that wastes idly a groat's worth of time per day, one day with another, wastes the privilege of using one hundred pounds each day.

He that idly looses five shillings worth of time, looses five shillings, and might as prudently throw five shillings into the sea

He that looses five shillings, not only looses that sum, but all the advantage that might be made by turning it in dealing, which, by the time a young man becomes old, will amount to a considerable sum of money.

Again, he that sells upon credit, asks a price for what he sells equivalent to the principal and interest of his money for the time he is to be 'kept out of it, therefore, he that buys upon credit pays interest for what he buys, and he that pays ready money might let that money out to use ; so that he that possesses any thing he bought, pays interest for the use of it.

Yet, in buying goods, it is best to pay ready mo-ney, because he that sells upon credit expects to loose five per cent by bad debts ; therefore he charges, on all he sells upon credit, an advance that shall make up that deficiency.

Those who pay for what they buy upon credit, pay their share of this advance.

He that pays ready money escapes, or may escape that charge.

A penny saved is twopence clear,

A pin a day is a groat a year.

White native Strawberry .- A. Goodwin, Ashfield, Mass., describes in the Mass. Plowman, a kind of strawberry, which he thinks is a native of the Berkshire hills. He says, "It is larger than the common field strawberry, very hardy, and yields a great quantity of fruit, producing in succession three or four weeks. When ripe it is of a yellowish white, contrasting beautifully with the red strawberry. It has a fine flavor, and when picked always cleaves from the hull. I have distributed them in Northampton and West Springfield, where they are much admired."-Alb. Cult.

## SIBERIAN SPRING WHEAT.

THE Subscriber offers for Sale, 100 bushels of this very superior variety of SPRING WHEAT, warranted pure and free from any mixture.

JAMES FLEMING, Seedsman and Florist, Yonge Street. Toronto, Oct. 22, 1844. lin

(male and female) by Knickerbocker, out of Rose and Maggy. Knickerbocker is sired by a manuface American Mare, owned by John M'Donald, Esq., of Gart, Cornwall, CanadaWest. *Rose and Maggy* are sired by *Rosecesvalles*, out of Mares at the West and North Rivers, near Charlotte Town, Prince Edward Island. EDWARD STEWART.