16th, Decause ath nations have been so alive to the evils of wine drinking, as to either prohibit it, or to refrain its use.

17th. Because I like "the fruit of the Vine," or the pure juice of the grape such as I believe Jesus gave to his disciples, and which was common in' Judea: but Port, Madeira, Shetry, and Champagne, and every kiad of brandied wine I am determined not to sotreh.-Peninsular Herald.

## DEW.

The form of moisture known as dew aris:s from the deposition of water previously existing in the atmosphere as aquevus vapor, which is deprived of its vapo:uss hape by contact with colder bodien, Grass and leaves arrive at a lower temperature than the circumjacent air, in the following miner. All bodies are constantly radiating heat, and their temperature can ooly remain constant liy the:r receiving from other objects as many rays of heat as they emit. The teinperauture of a sulstiage situated od as to radiate a greater nember of calorific yajes than: it receives, must fall; sueh is the gondition of grass, leaves, and substances of this sort, on the surface of the earth; on a clear evening, their rass of beat are emitted into the air, and lost in space, as nothing is present in the atmosphere to exchange rajs with them. If a therumometer be pliced upon a grass-plot, on a clear balmy evening, it will frequently indicate a temperature from ten to fifteen degrees lower than that of the surrounding air.; bat the thinnest cambic handkerchief held stretched above it will, by exchanging rays of heat with the adjacent grass, cause the thermometer to matk an increase of temperature. The passage of a thick cloud over the spot will be followed by the same result. But on a clear evening, as the caiorific rays of grass and leaves become ciestipated, their temperature necessarily ditinighes, and falls below that of the surrounding sir, and some of the aqueous vapour therein is converted into water by contact with the grass or other bodies whose heat is cissipated.
Grass, wood, leaves, and filamentons submances are good radiators, and consequentls dew is usually deposited upon them, but rareIf upon smooth stones or s:ind, for two rap. sons-Girstly, because they are not good radiators; and secondly, b Juse some of the heat loat by radiation is restored by their contact with the earth. Thin clothes are also good radiators; and Campbell correctly says:-

## The dow on his robe was heavy and chilit To wairing alone by the wind-beaten hill."

As the most copious deposit of dew takes place when the weather is clear and serene, the poet, when using the epithet ' m mind beatent ${ }^{\text {' }}$ refern, no doubt, to the gerieral character of the bill, and not to the state of the evening.
At the time aqurous vapour is being condensed or converted into dew, it communicates to the body effecting the conversion the whole of is buatent heat, which is so very considerable that it would ke sufficient to raise nine tundred and fifty times the weight of water condensed into dew one degree of Fahrenheit, or more than five tines the weight of water from the fieezing point to the boiling point. Incredible as this may seem. it must actually happen, amed the whole of this vast amonnt muatt be dissipated by the substances upon which any dew is deposited ere the deposition can proceed: This enables us to form Lome conception of the prodigious pow. ers of radiation possessed by dew-condensing planta. It also presents water to us as.a sart
of what may be termed a heat or caloric re. $r$ a ator, for when water is converted into vapour or stcam, it absorbs precisely the same amount of heal as is literated on the condensation of steam or vapour into water; thus when the weather is very Lot, large quantities of water are converted into vapour, thereby withdraw ing or randering latent a vast amount of heat, which mast othe rwise prove injorions to animal or veretable litie. Un the other hand, by being condensed into dew, it restores to veretables that heat which they had dissipated $\mathrm{b}_{j}$ radiation, and which, but for such restoration, michht possibly operate to impair or destroy their vitalfunctions. This is one reason why places nuif the sea are alvays more temperate; * 1 batidenenjoy a more equable climate than there atmote from it.

The ragon why water distilled from aqueous vapof on the leaves of phams talies the um dnownonders, depends upon the combined and contomporabeous action of thro several and distinct fo ces, a! opeating dur ing its formation. The three forces asethe mutual attraction beta een the dew ard surface of the leaf, or substance upon which it is deposited, called " adhesion;" the mutua attraction of particles of water for eachouth termed "cohesion;" and the force of Bravity," or its own weinht. Durier this e.thest period of the depersition of de:in, the first force, or that of adbesion, predominates, and a thin film of moisture is spresed over the whole radiating surface, or, perhaps it wuuld be mote carrect to say, is spread over the whole surface proportionably to the radiating power of its several parts. As the deposition progresses and more water is distilled, the second force, or that of cohesion, asserts its inflaence, and this thin film of water is broken up into a number of minute globules; these gradually increase in size as more water is condensed, aud the third force, the force of gravity, or the weight of the dew, begins to be felt, which at last overcoming the force of cohesion, the poor little globules are ru!hlessly torn from the leaf or radiating surface, and roll dishonoured on the ground. Some few, however, glide to a point in the leaf or blade of grass, where the force of adhesion, favoured by some accidents of surface, successfully renews its strugg!e with the firce of gravity, and the fortunate little globules are sustained aloft. The three forces are now in stable equilitrium, the second, or that of coh sion, being locally predominant, whish results in a bright little pearly sphere, clear as a diamond -and thus, in our morning walks, our eyes are dazzled by Night's jewelled gifts to Nature. - [Chamber's Journal.

## AMBITION.

An ambition which has conscience in it will always be a laborious and faithfal engineer. and will build the road, and bridge the chanms between itself and eminent surcess, by the most diligent, faithful, and minute performance of present duty. Men are to rise upon their performances, not upon their discontent. He who will not do well in his present place, beause he longs to go higher, is neither fit to be where he is nor yet above it: he is already too high, and should be put lower."-Beecher.

## THREE MISTAKES.

"There are three things which, if Christians do, they will find themselves mistaken:-If they look for that in themselves which can only be found in another-perfect righteousness; if they look for that in the Law which can ouly be found in the Gospel-mercy; if they look for that on earth which is only to be found in heaven-per-fection."-M. Henry.

* It may be mentioned that the three elements that of determine the climate of any prese, omitting that of aspect
the latitude.


## THE WIFE TO HER HUSBAND.

[The followinc admirable lines by an American lady, a member of the society of Fiiends, lately appeared in the Tines. We are told that the poem was found in the cottage of a tippling gardener of the Unitod States. and that it not only won him from the nosy tampon tu his cova domestic hearth, bat that the ineliaius listribution of it was the

You took me. Wilian, when a girl, unto your home and hoarth, vear in al
Ank then me, have $x$ cocr big that duty to forego, Or pinct thme was no joy fir the, wher ton werb
 For thluagh yoi're noining ta the world, you're all You make a patace of my shed, this rough hewn You make a patace of my shed, this rough hewn
Geuch thene
Theres anitht fur me in your smiles, and music
, ine's sumfight for me in your smiles, and music ny nen when yon secp-my eyes with tears (yive dinn,
I cre b, patent of tac poor, luok down from heaven Beboid him toil from day to day exhansting atrength 0! and soul;
. Aud when at last rulicving sleep has on my eyolds stiflell,
ILow chit are they frivade to close in slumber by our
chat little murmurer that spoils my spani of reet it
And feet is a part of thee I lall upon my breast. There's only one return I arave, I maas not need it And it inny soothe thee when I'm where the wretohI ask for not no wrong,
I ask for not less frugal fare, if such as I have got Suffice to make me fair to thee, for more 1 murmux But I wot;
But I would ask some share of hours which you on clubs bestow,
Of knotledge which you prize so much, might I not
something know? something know
Subtract from meatings amongst men, each eve, an Make hour for me
If be companion of your sonl, as I may'safoly If you with read, Ill sit and work; then think when you're away
Less tedious I shall find the time; dear William, of your stay.
A meet gompanion soon I'll be o'en of your stadious hours
And teachers of those little onds you call our cottage And if we be not rich and great, may we be wise and good!

## THE IMPORTANCE OF LItTLE THiNGS.

A young man, about the age of twentyone, went into the city of Paris, in 1788, in search of a situation. He had nothing to trust to but Providence and a letter of introduction to a celebrated banking establishment. He called or the gentleman at the head of it, in full expectation of finding employment. Monsieur Perregeaux glanced hastily over his letter, and then retarned it, saying, " We have nothing for you to do, sir." The young man's hopes died within him.He almost burst into tears. But theere was no help for it. So he bowed and retired in dejected silence. As he passed through the courtyard of the building, he anw a pin lying on the pavement. He picked it up, and stuck it carefully into the sloeve of his coat. The banker saw what took place, and argued from it a habit of economy. He called him back, and offered him a humble situation in. the establishment. From that he rose by degrees, till he became the principal partner in the firm, and eventually the chief banker in Paris. Thus Jacques Lafitte, the son of a poor carpenter in Bayonne, under God, owed his fortune to the picking up of a pin.

