

Nec aranearum sane textus ideo melior, quia ex se fila gignunt, nec noster vilior quia ex alienis libamus ut apes. No. 13. New Series. Vol. 1:

## Miramichi, Tuesday Morning, December 20, 1842.

## THE GLEANER.

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## Agricultural Journal.

From the Fourth Edition of Mrs. Somerville's work "On the Connexion of the Physical Sciences." Influence of Temperature on Vegetation .- Vegetation varies with the Latitude and Height above the Sea. -Geographical distribution of Land Plants .- Distribution of Marine Plants.

Near the equator, the oak flourishes at the height of 9200 feet above the level of the sea; and on the lofty range of the Himalaya, the primula, the canvallaria, and the veronica blossom, but not the primrose, the lilly of the valley, or the veronica which adorn our meadows: for although harbarium collected by Mr Moorcraft on his route from Neetee to Daba and Garlope in Chinese Tartary, at elevations as high or even higher than Mont Blanc, abounds in Alpine and European genera, the species are universally difterent, with the single exception of the rhodiola rosea, which is identical with the species that blooms in Scotland. It is not in this instance alone world. that similarity of climate obtains without identity of productions; throughout the whole globe, a certain analogy both of structure and appearance is frequently discovered between plants under corresponding circumstances, which are yet specifically different. It is even said that a distance of 25 ° of latitude occasions a total change, not only of vegetable productions, but and in the Arctic regions, where mos-of organized beings. Certain it is, ses and lichens which form the lowest that each separate region of both land order of the vegetable creation abound, and water, from the frozen shores of the proportion is as one to two. The the polar circles to the burning re- annual monocotyledonous and dicogions of the torrid zone, possesses a tyledonous plants in the temperate Flora of species peculiarly its own. The whole globe has been divided by whole, omitting the Cryptogamia; in botanical geographers into twenty seven botanical districts, differing almost entirely in their specific vegetable production, the limits of which are equator, the ligneus exceed the nummost decided when they are separated ber of herbacous plants; in America, by a wide expanse of ocean, mountain there are a hundred and twenty differ chains, sandy deserts, salt plains, or ent species of forest trees, whereas in internal seas. A considerable number the same latitudes in Europe only of plants are common to the northern thirty four are to be found. regions of Asia, Europe and America, where the continents almost unite; but in approaching the south, the Floof these three great divisions of the globe differ more and more even in the has lingred longest and farthest in the same parallels of latitude, which shows rear of scientific discovery. It is now that temperature alone is not the cause however, rapidly making up its lee- ture of the day. The beneficial effects the land. Let us add, that the starch of the almost complete diversity of way, and assersing its claims to the of this happy combination of scientific though an article that is retailed for species that everywhere prevails. The rank of science. This is owing to vari- and popular interest in agricultural 12 1-2 cents per pound, can be had in Floras of China, Siberia, Tartary, of ous causes, and pre-eminently to the the European district including Cen- patriotic exertions of the national and tical experience, cannot be over esti- price. The directions for making the tral Europe and the coast of the Medi- local societies which have been insti- mated. terranean, and the Oriental region, tuted for the improvement of the art comprising the countries round the first in Scotland, and more recently Black and Caspian Seas, all differ in specific character. Only twenty four species were found by MM. Bonpland institutions is now universally recog-the specific character in good condition, and fire in a sauce pan, reserving enough institutions is now universally recog-the should be preserved through till cold to wet the starch with to the the should be preserved through till cold to wet the starch with to the the should be preserved through till cold to wet the starch with to the the should be preserved through till cold to we the starch with to the the should be preserved through till cold to we the starch with to the the should be preserved through till cold to be the starch with to the the should be preserved through till cold to be the starch with the st and Humboldt in Equinoctical Amer- nized, and the wonder is that this was tea identical with those of the Old not the case long ago; but it is re-World: and Mr Brown not only found markably the fact, and although Scotthat a peculiar vegetation exists in land has long presented a model for New Holland, between the 33d and all nations in the Highland Society, and 35th parallels of south latitudes, and although such a man as Washing- sufficient shelter, should have a regu- and as soon as an egg would ordinarily but that, at the eastern and western ton recommended the formation of lar supply of water, and, sheep and cook, (say in two minutes) the pudding extremities of these parallels, not one agricultural associations in one of his cattle especially, should have a portion will be ready for the table. It is eatspecies is common to both, and that Presidential Messages, to the infant of roots constantly intermixed with en with cream or milk, and white sucertain genera also are almost entirely Republic of A nerica, it is only with- their daily food. gar, like blanc-mange.

confined to these spots. The number in the last few years that this powerful Large troughs for feeding with hay, of species common to Australia and stimulus to Agricultural improvement are preferable to racks, as they more Europe, are only 166 out of 4,100, and probably some of these have been | England or Ireland. conveyed thither by the colonisis.

This proportion exceeds what is observed in Southern Africa, and from Equinoctial America is still less. Islands partake of the vegetation of

the nearest continents, but when very remote from land their Floras are altogether peculiar. The Alcutian Islands, extending between Asia and America, partake of the vegetation of the northern parts of both these continents, and may have served as a channel of communication. In Madeira and Teneriffe, the plants of Portugal, Spain, the Azores, and of the north coast of Africa are found; and the Canaries contain a great number of plants belonging to the African coast. But each of these islands possesses a Flora that exists nowhere else; and St. Helena, standing alone in the midst of the Atlantic Ocean, out of sixty-one indigenous species, produces only two or three recognized as belonging to any other part of the

It appears from the investigations of M. de Humboldt, that between the tropics the monocotyledonous plants, such as grasses and palms, which have only seed-lobe are to the dicotyledonous tribe, which have two seed-lobes like most of the European species, in the proportion of one to four; in the temperate zones they are as one to six; zones amount to one sixth of the the torrid zone, they scarcely form one twentieth, and in Lapland one thirtieth part. In approaching the

A TREATISE ON AGRICULTURE.

has been rendered available either in effectually prevent waste.

rent in the universal introduction of be properly protected by sheds. If mechanical improvements, which les- this were attended to, and they have a what has been already stated, the sen the labour of tilling the soil, while daily supply of roots with their hay, proportion of European species in they improve the efficiency of the verv few would be lost in wintering. process; and, what is of more consequence, in bringing practical men to more nourishment when ground, than inquire into the principles on which when left unground. the process of tillage proceeds, and a knowledge of which is fitted to elevate food for horses, fed in moderate quanagriculture from the position of an em- tities, with hay, and a small quantity pirical art, to the dignity of a science, of oats. second to none in importance, in ministering to the every day wants of should be kept constantly ventilated, mankind very clean, and well littered with

While agriculture has been thus straw. slowly struggling to disencumber itself of the prejudice of ages, and avail eaten by cattle, if it is salted by sprinkitself of the advantages which the other practical arts are deriving from if in addition to this, they are chopped. the discoveries and applications of modern science, it has readily found month, to cart leached ashes on land a helping hand, both in this country which may need it. It is particularly and on the Continent, from men able valuable on wet meadows; a friend and willing to guide it in the path of spread eight or ten loads on an acre on scientific inquiry. Foremost amongst his meadow (which was occasionally those who are now contributing their overflowed by the large creek which enlightened labours for the improve- passes near it) and the consequence ment of agriculture is Professor Lie- was an increase of one half more grass, big, the founder of the school of organ- although it had previously produced ic chemistry in Germany, whose dis- yearly two or more tons to the acre. coveries and works are now exciting This effect continued for several a profound intererest in this country, not merely amongst practical agricultu- buck ashes (leached ashes from ashrists, but amongst scientific and intelli- eries) is most powerful upon moist gent men of all classes. Other agen- lands and meadows, in which they not cies are in operation tending to the only facilitate the growth of useful same results, and not the least power- plants, but if employed constantly for ful of which is the diffusion of botani- several years, they will free the soil cal studies in our universities and from weeds. schools, where the principles of agriculture are now regularly taught as part of the course of botany, and where the study is no longer confined best, and the very cheapest, and the to the medical curriculum.

the startling theories of Liebig, the any agricultural paper in the Union, acute but intemperate criticisms of his from which he may chance to take it. physiological opponent Schleiden, and And what we ask is that very person By John Sproule. Of all the practical arts, agriculture Martin Doyles, and such useful prac-ot least a year, and thus encourage

Sheep, instead of being left out ex-Its effects are now becoming appa- posed to the weather all winter, should

Oats, for horses, will afford much

Ruta bagas are excellent winter

All stables for cattle and horses,

Straw and poor hay, are readily ling brine over it; and it is still better

It is a very suitable time during this years. Chaptel says ' The action of

## From the Maine Farmer.

Potato Starch Pudding .- The very very least known pudding that can Agriculture, too, has its literature, be made in a family, is made of potato popular as well as scientific, besides starch, eggs, and milk. It is made its lecturers and its museums, and men too, in the very shortest time of any who are never likely to know anything kind. We give below directions for of it practically, or to follow the making it and every person that will try plough upon the 'mountain's side,' it, will say this recipe alone is worth begin to feel as lively an interest in a whole years subscription to this or the more familiar disquisitions of our who avails himself of it in his family own Johnstons, and Maddens, and will in recompence for it send to us or tical writers as the present author, as at least a year, and thus encourage in any other productions of the literaand popular interest in agricultural 12 1-2 cents per pound, can be had in improvement, with the results of prac- quantities for a very considerable less puddings are as follows:-To eight table spoonfuls of the Brief Hints for December .-- Do- starch, use one quart of milk and four spring To do this, never attempt to sonsistency of thick cream-beat the winter more than you have abundant eggs and mix them with the wet means of providing for. All animals starch-when the milk in the pan comshould be regularly fed, they should mences boiling, (having seasoned it be kept warm and comfortable by properly with salt) stir into it the eggs,