NORTHUMBERLAND, KENT, GLOUCESTER, AND RESTIGOUCHE COMMERCIAL AND AGRICULTURAL JOURNAL.

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Miramichi, Tuesday Morning, December 27, 1842.

## 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. -Gengraphical distribution of Land Plants .- Distribution

Marine Plants. Similar laws appear to regulate the distribution of marine plants. M. Lamourouroux has discovered that the groups of algæ, or marine plants, affect particular temperatures or zones of latitude, though some few genera prevail throughout the ocean. The polar Atlantic basin, to the 40th degree of north latitude, presents a well defined vegetation. The West Indian seas, including the Gulf of Mexico, the eastern coast of South America, the Indian Ocean and its Gulfs, the shores of New Holland, and the neighbouring islands, have each their distinct species. The Mediterranean possesses a vegtation peculiar to itself, extending to the Black Sea, and the species of marine plants on the coasts of Syria and in the port of Alexandria, differ almost entirely from those of Suez and the Red Sea, notwithstanding the proximity of their geographical situation. It is observed that shallow seas have a different set of plants from such as are deeper and colder; and, like terrestrial vegetation, the algae are most numerous towards the equator, where the quantity must be prodigious, if we may judge from the gulf-weed, which certainly has its origin in the tropical seas, and is drifted, though not by the gulf-stream, to higher latitudes, where it accumulates in such quantities, that the early Portuguese navigators, Columbus, and Lerius, compared the sea to extensively inundated meadows, in which it actually impeded their ships and alarmed their sailors. M. de Humboldt, in his Personal Narrative, mentious that the most extensive bank of seaweed is in the northern Atlantic, a little west of the meridian of Fayal, one of the Azores, between the 25th and 36th degrees of latitude. Vessels returning to Europe from Monte Video, or from the Cape of Good Hope, cross The other bank occupies a smaller of the order Fucoidea.

Some of the seaweeds grow to the be the only principle on which the

tranquil caves of the ocean, on the nantry, he says, 'Setting it down for ground cannot be so rich afterwards, diversity is a general law of the vege-table kingdom, which cannot be ac-manure one-fourth of your farm every ber of species belonging to one of the along with it. great families of plants be known in any part of the globe, the whole num- the open air, and in all likelihood they ber of the phanorogamous or more will acquire more vigour in pasture perfect plants, and also the number of grounds than when confined in houses species composing the other vegetable or fold yards. Cows, on the contrary, families, may be estimated with consi- being impatient of heat, ' when the derable accuracy.

strong holds.'

## SOILING.

Soiling is the feeding of cattle with absolutely necess

shores alternately covered and deser- certain that you ought to have one ted by the restless waves, on the lofty cow for every three acres of arable mountain and extended plain, in the land, as being the smallest stock which chilly regions of the north and in the can possibly keep the ground in heart; genial warmth of the south, specific if this be not kept in view from the counted for by diversity of climate; year, and you will therefore be thrown and yet the similarity, though not out of a rotation; the land will be exidentity, of species is such, under the hausted and left to rest as formerly; same isothermal lines, that if the num- and as it gets poor, you will get poor

Young animals require exercise in sun scorches and the gadfly stings,' Various opinions have been form- are deprived of that ease which is so common heather have been recom- a field.

mended for this purpose. to pursue, where small number of animals may be mainmany of them must grow in the deep and other green food, as a profitable most remarkable circumstance attend. fattening stock with equal benefit. caverns of the ocean, in total or almost mode of procuring rich manure, and ing, however, is that the corn crop total darkness; light however may not also of feeding the stock. With the the following year is in general better be the only principle on which the colour of vegetables depends, since M. de Humboldt met with green plants growing in complete darkness at the bottom of one of the mines at

as when all the manure which the pasturing stock left remains upon it.

The late Mr. Brown, of Markle, tried many experiments on this subject, and the result proved so decidedly in favor of soiling, over pasturing, that he continued the system ever after. He was of opinion that the saving of grass by this process is nearly fifty per cent., and many say that it is even greater. Some fold yards arefitted up with shelter-sheds and open yards well littered.—Many graziers, however, prefer open-fold yards with high palings, to shelter the cattle from the wind; and it is well known that animals will eat food laid down to them on the ground, which they would reject if given to them in stalls. Sheds may be made at little expense, by ed on the original or primitive dis- conducive to the production of milk; driving stakes into the ground, and tribution of plants over the surface and thus feeding them in the house covering the spaces between them of the globe; but since botanical geo- not only increases their produce, but with boughs of trees, branches of the graphy became a regular science, the manure of the stable is greatly aug-the phenomena observed have led mented. In conducting this process purpose. In Norfolk, the cattle are to the conclusion that vegetable crea- it is thought to give food often and in sometimes tied to stakes, on wheat or ation must have taken place in a num- small quantities, allowing the cattle barley stubble, without covering. A ber of distinctly different centres, each free use of a yard for air and exercise, manger is made of a few planks; the of which was the original seat of a cer- which will keep them in a healthy food is carted to the cattle; and their tain number of peculiar species, which condition .- If fed in stalls, they must dung is walled up behind them, a first grew there and no where else. be kept perfectly clean, for allowing small trench carrying away the urine. Heaths are exclusively confined to the Old World and no indigenous rose jurious .- On the least appearance of barbarous but unprofitable; for expetree has ever been discovered in the a loss of appetite, the quantity of food rience has proved that cattle fed in the New: the whole southern hemisphere must be lessened, and clover should house can be taken to market in Febeing destitute of that beautiful and be given sparingly at first, for if wet, cruary, while those fed in this manner fragrant plant. But this is still more it is apt to bring on a disease called were not ready till April. Somewhat confirmed by multitudes of particular koving, or swelling. This disease is similar to this method is the practice plants having an entirely local and supposed to arise from the air which in many parts of Scotland and Ireland insulated existence, growing spontanthe animals engender swelling on the of tying cows and horses upon the paseously in some particular spot and in stomach, and if assistance is not spee- turage. In this case, however, care in no other place; for example, the dily rendered, it will soon cause death. is taken that the cattle suffer nothing cedar of Lebanon, which grows indigenously on that mountain and in no changed from dry to green, they are heat of the mid-day sun. In unincloother part of the world. On the apt to injure themselves by eating too sed farms this practice is necessary, other hand as there can be no doubt freely of the green food, on this ac- to prevent the cattle from wandering but that many races of plant have been count care should be taken that they into cultivated fields: and it is found extinguished, Sir John Hershell thinks have not too much at once. Clover that the grass is more economically it possible that these solitary instances should be cut two days before it is consumed. Many experienced agrimay be the last surviving remnants given to the animals, and this will pre- culturists have practised this on a of the same groups universally disse-minated, but in course of extinction or that perhaps two processes may be going on at the same time; 'some ed in water, will afford speedy relief. feeding. The grass is also said to begroup may be spreading from their Straw should be given as fodder, which improved, and will maintain at least foci, others retreating to their last will correct a tendency to looseness in a third more stock than when the catthe bowels; and even the tops of the are allowed to roam at large over

In soiling, the cattle should always The advantages arising from soiling have abundance of good water at comthis bank nearly at an equal distance green crops for the sake of their ma- have been found very great by those mand, and a careful servant should be from the Antilles and Canary Islands. nure, and this is a practice which it is who have heartily adopted it The appointed to manage them, and to supply fresh food five times a-da space, between the 22nd and 26th de- a plentiful supply of dung cannot be tained on somewhat less than half of Tares, sown at different times, to be grees of north latitude, about eighty obtained from towns, or in any other leagues west of the meridian of the Bahama Islands. These masses con
Bahama Islands. The masses con
Bahama Is sist chiefly of one or two species of and disposing of them again after a pared to that of the great augmentation wise fall off in milk, and the fattening Sargassum, the most extensive genus season, in a better prepared condition of valuable manure which is obtained stock make no progress. Many judifor market, is now largely followed in by this process. The manure is colcious dairy husbandman in Scotland Scotland, and is attended with the lected by soiling, and may be used put cows out to grass in the mornings best results. Throughout Flanders, for any purpose by the farmer; where- and evenings, and feed them in the enormous length of several hundred feet, and all are highly colored, though in the house, and fed upon cut grass the manure is in a measure lost. The many of them must grow in the deep

## From the Maine Farmer.

at the bottom of one of the mines at tention of the cultivators of the soil in that country to this subject; and in one the plant sheds on the ground, may spoons, heaped, of potato starch, appears that in the dark and of his cheap publications to the te-have this effect for one year, the