

Nec aranearum sane textus ideo melior, quia ex se fila gignunt, nec noster vilior quia ex alienis libamus ut apes. [COMPRISED 13 VOLUMES. OLD SERIES]

NEW SERIES VOL. IV :]

ters.

NIX

by the ection in on-

om a c the od a-n from orietor acs is is itienal croops

eneral isease

in in-

seast, rhen-ache. fuloss

and all is art ipidit; would usands n colds

n colds is dues insided taken

sen ai repirs. acur

duce a in the

s of a

t pet. Their giolent ken in etiring of the

a gran ny has bdued.

hough

ner

e LIFE

na, hy. many of dis.

HENIX

at the Chat:

Toseph their

nhabt hat his n good on the cholas,

ons to in the RRY & either iment, d with ry ten turned of all to the

cason,

TY

eralle

point-gents ch, il

oil, or to the nd re-of sel

ES 1

Pub-by Chat: r ap-hall tage.

SET

13 18 181

an line

ENJI DA

1.

MIRAMICHI, SATURDAY MORNING, OCTOBER 11, 1845.

News from England.

WILLMER AND SMITH'S European Times,

Which arrives by every steam ship at Hahfax

Which arrives by every steam ship at Hahfax 1 r o m Liverpool, Comprises. an English Newspaper,—a. Shipping List,—and a General Price Current. It is arranged and published Expressly for Nova Scotia, New Bruns-wick, Newfoundland, Canada, the United States, &c.. Of this Paper the "Boston Morning Post" Asys—"We are greatly indebted to this News-paper for our Foreign, Miseellaneous, and Commercial News. One number of Willmer & Smith's European Times is worth a whole Ble of any other English paper ". During the time this Journal has been before the world, the Proprietors refer, with pleasure,

During the time this Journal has been before the world, the Proprietors refer, with pleasure, to the praise which it has elicited from the press of England, Scotland, Ireland, the United States, the West Indies, and the encouragement it has received from the public of Canada and the United States.

THREE ESSENTIAL FEATURES DISTINGUISH IN ROM ALL CONTEMPORANEOUS PUBLICATIONS

FROM ALL CONTEMPORANEOUS PUBLICATIONS FIRST,—It contains a full, correct, and com-prehensive Shipping List, arranged on a plan so plain and pracicable, that, "who rans may read." Persons interested in the Marine of British America may turn in an instant to the information which they seek, with the certainty relying on its truth. It thus supersedes shipping Lists, and other expensive publications from Europe, some of which are six times the price of Willner & Smith's European Times. Szconstry,—It contains a Price Current of

SECONDLY, -- It contains a Price Current of all the great British and European Markets, devoted principally to the articles of trade and The agreat British, and European Markets, devoted principally to the articles of trade and commerce, more immediately appertaining to British America and the United States, and in which the Merchant, the Trader, and the man of business must feel an immediate interest. On the secore of correctness, the Tabular Figu-ies, and the remarks accompanying the various markets, showing their actual condition, may be relied on, and are, in fact, an authority with that of the first Houses in the principal cities in the United States and Canada. Thurantx, —As a newspaper, it presents to he American reader, in a concentrated state, and where the interest or the importance of the subject demands it, in the most detailed and ample form, every topic of political, commer-cial, domestic, and miscellaneous interest which has occurred in Europe or elsewhere, since the departure of the previous packet--especial regard being paid to whatever ismostly connected with, or relates to, the political social and accurred in mult britice of British Social and answers of the subject of political connected with and the social social

capecial regard being paid to whatever is mostly connected with, or relates to, the political, social, and commercial well being of British America and the United States. Willmer & Smith's European Times, in short, takes a OLAKCE at every circumstance in which the inhabitaats of the great Western World can possibly feel an interest. It puts the American reader in possession, the moment it comes to hand, of whatever has transptred, during the interval in Europe—personal, political and commercial. commercial.

The subscription to this Paper is 16⁻. per annum; and may be ordered of JAMES CALE, Esquire, Postmaster, Chatham, Miramichi.

NEW BRUNSWICK, County of Westmorland, S.S. [L.S.] To the Sheriff of the County of West moreland, or to any Constable within soid Connutr. Greating Whereas SAMUEL OFLION and THOMAS ily: OULTON, Administrators of a'l and singular the Godds, Chattels, and Credits, which were of the facture of the Credits, which were of the late THOMAS OULTON, deceased, at the time of his death, exhibited and filed their ac-count of the Administration of said Estate, and and have prayed that the Next of Kin of said deceased, and all persons interested in the said estate, may appear and attend the passing and ellowing the said accounts; and also to the distribution of any surplus which may, on the final allowance of said accounts, remain in the hands of said Accounts, remain in the Ra da of said Administrators ; You are therefore taquired to cite the Next of Kin of said deceased, and all others interested in said estate, and they are hereby cited to appear before me, at a Court of Probate to be held at my office in Dorchester, within and for said county, on Turanax the twenty first day of October pext, at twelve of the clock of near to attend the a twelve of the clock, at noon, to attend the passing and allowing of the accounts of the said Administrators, and to the distribution of said area. said surplus Given under my hand, and seal of the said Gourt, this eighteenth day of August, 1845 (Signed) E. B. CHANDLER, Surrogate Judge of Probates, county of Westmoriand, (Sigael) THOS. S. SAYRE, Register of Delivery of the standard standa Probates, county of Westmorland.

Agricultural Iournal.

From Hogg's Instructor ... THE VEGETABLE KINGDOM.

THE VEGETABLE KINGDOM. It is now midsumer—the bright sun-shines throughout, the long day diffusing light and heat over the face of nature— the earth is in its full luxuriance; and in the words of Milton, "it were an injury and sulleness against nature not to go forth and taste her beauties, and min-gle in her rejoicings with heaven and earth."

earth." What a change a few months has brought about! Lately, the earth was bound up in severe frosts of winter-not a leaf or a gay blossom was to be seenall all was apparent barrenness and deso-lation. And so was the earth before it was first clothed with green herb—a bare, rocky, and barren mass. Vegetables are as it were the clothing of the earth ; flow-ers, shrubs, and trees, its ornaments. There is a softness and appropriateness in the subdued time of green which is in the subdued tinge of green, which is with very few exceptions the prevailing livery of the earth—something which is pleasing and refreshing for the eye to look upon, without being too glaring or daz-

zling. Vegetables, though they do not possess the structure and sensations of living animals, have yet a kind of life of which mere matter is altogether destitue. They form a link, and a most important one, between mineral substances, such as rocks and stones, and animated beings. But though they are thus endowed with a kind of vitality, yet, as to actual com-position, they are, like all animals, not excepting man himself, literally formed out of the "dust of the earth."

A few simple substances, such as carbon, sulphur, phosphorus, potash, seda, lime magnesia, combined with three gaseous bodies, oxygen, nitrogen, and hydrogen, make up the whole of the matter of which plants are composed. Now, exactly the same substances combine to form the flesh and bones of animals; but as animals cannot extract and combine these substances directly from the air, water and soil, they have to depend ei-ther directly or indirectly on vegetables for their nourishment. No animal, even the simplest or most minute or insignificant, can live on inorganic matter. A great proportion of quadrupeds derive their sole support from grasses and green herbs, and many kinds of birds from grain herbs, and many kinds of birds from grain and seeds; these become the prey of car-nivorous animals, and afford them, their sole means of subsistence. Fishes prey upon flies and insects, which either di-rectly or indirectly derive their subsis-tence from the vegetable kingdom; and man, as well as some other animals, lives indiscriminately, both on animal and ve-getable matter. We thus find that ve-rectables perform a most important office getables perform a most important office in creation. By their peculiar structure and functions, and under the laws of vital action, they assimilate air, water, and earthy salts, and form out of them the

up peat mosses—and vegetables of a still more remote growth treasured up in the bowels of the earth in the form of that most valuable mineral, coal.

In common language, we speak of plants as living, as growing or increasing, and as fading and dying. Now, this is strictly correct. A plant is an organised structure, having numerous minute cells and porous tubes through which a sap or and porous tubes through which a sap or juice flows, and by which all the func-tions are performed, tending to increase, preserve or multiply the species. It is possessed of what has been called urrita-bility, which in many respects resembles some of the motions of animals, as is ex-emplified in the shrinking of the sensitive plant when touched by the hand, the movemens of the leaves of plants towards the light, and the twining of their ten-drils round other neighbouring substan-ces for support. But plants have not sensation. They do not feel like ani-mals, nor exhibit any traces of conscious-ness. In short, they possess only that-lowest form of vitality which has been called organic life. Plants vary greatly in their structure,

Plants vary greatly in their structure, but the generality have roots, stems, bran-ches, leaves, blossoms, and receptacles for the maturation of their seeds. Pervading the roots and stem, there are a series of minute hollow tubes and spiral vessels through which the sap passes upwards from the earth, and, mounting to the *leaves* there combines with the gases of leaves there combines with the gases of the atmosphere, and thus becomes con-verted into nutritious juce, which again descends, and is distributed throughout every part of the plant for its growth and nourishment. The outer bark of the plant consists of a thin membrane, somewhat like the skin of animals, and serves a similar purpose, to protect the parts be-neath from the air and from external in-jury; serving also for the exhalation and jury; serving also for the exhalation and absorption of moisture through its-nume-rous pores. Immediately under the skin is a soft pulpy structure, consisting of in-numerable cells, and which is of a green colour in almost all vegetables. Of this kind of structure, too, the leaves of plants are composed. Under this cellular sub-stance, we find in woody plants the true bark or *liber*, composed of numerous fibres running in a longitudinal direction, and having the appearance, when slightly macerated, of a fine net-work. In this portion of the bark the peculiar virtues of plants- principally are found; such as gums, resins, essential oils, as cinnamon, peppermint, turpentine, and the astrin-gent tanain of the oak. The wood is found immediately under this, circle within circle, extending to the pith, which is situated in the centre. The outer ciris situated in the centre. The outer cir-cle of wood next the bark is softer and juicier than those in the centre, being the newest; and as a circle is formed each year, the number in a traverse section, near the root, will commonly denote the age of the tree, at least all those trees of temperate regions. Throughout the woody fibres, but especially the outer circles, there are numerous tubes and cells, generally six-sided, through which sap and air freely flow. The leaves of plants are most important appendages, and may be compared to the lougs of animals. Plants will not live if deprived of their leaves, or if they have not free access to the sun and air. During the day, and in subshine, the leaves of plants continually absorb the carbonic acid, and nitrogen gases of the atmosphere, which enter into union with their juices, while oxygen gas is as constantly exhaled. In the darkness of night this process ceases, and a portion of the carbonic acid of their juices is thrown off. Now, this daily action of plants is just the reverse of the breathing process of animals-the latter consume the oxygen of the atmosphere, and give out carbonic acid, so that in process of time the air we breathe would become vitiated, were its oxygen not continually renewed by the operations of the vegetable kingdom. Here then we per-ceive another providential adjustment; not only do plants contribute food for animals but they are also the great regenerators of the atmosphere, the purity of which is equally subservient to animal ex-

But there remains another feature of plants to be noticed—the flowers or blos-soms, those variously tinted portions which add such beauty and splendour to the face of nature. We cannot in the summer season turn our eyes in any di-rection, where we do not find the trees, hedges, and fields, loaded with gorgeous ornaments, from which proceeds also a mingled odour of delightful sweets. Even the meanest weed beneath our feet Even the meanest weed beneath our feet Even the meanest weed beneath our feet shows its little white star, or yellow, red, or variously spotted gem of blossom. Nature is not only bountiful in bestow-ing the useful and necessary, but profuse in pouring forth beauties to please and gratify the senses. Nature, however, is not profuse in vain—each of those brilli-ant cups and curiously tinted fibrils has its decided use; and all the parts combine to carry out the great conservative plans of creation. Like animals, plants are possessed of organs necessary to accompossessed of organs necessary to accomplish the purpose of nature-the repro-duction and continuation of the species. From remote antiquity, the importance, of the organs of the flower in perfecting, the seed was known; and although Lin-naous did not wholly make this discovery, yet it is to him we owe its complete elu. yet it is to him we owe its complete elu-cidation about the year 1730. If we take a common wild rose, we may readily perceive the several parts of this struc-ture. The green kurb attached to the flower stem is the ovary, where the seeds are matured. Above this is a green cup or calyx, notched into segments, and which correct the seven of the flower. serves to support the parts of the flower above. The flesh-coloured leaves form the corolla, an undivided body in some plants, but in this, as in many others, divided into numerous *petals*; this corolla, which is generally the showiest part of which is generally the showiest part of all flowers, serves as a protection and de-fence of the parts within. These con-sist of the *pistil* or female flower in the ceatre, and of the stamens or male flow-ers arranged around the circumference The stamens carry on their tops an ob-long loosely attached body, which is the *aather*, containing the *pollen* or tertilizing dust, which in due time bursts and seat-ters its contents on the *stigma* of the pis-til. In some plants, the blossom con-tains only the pistils or female flowers, while the stamens grow on other plants, while the stamens grow on other plants, or on separate twigs of the same plant. In such instances, the pollen is borne along by the agency of the wind, or of the bee on other insects, roaming from flower to flower in search of food.

NUMBER 1.

Such is a rapid glance of the arrange-ments of nature in even the lowliest plants. From the simple moss or lighen up to the tall cedar or the splendid mag-nolia, there are of course, many diversi-ties of this structure—but all are on one uniform plan, and every plant produces. its "seed after its kind." What a field here for the exercise of the attention and here for the exercise of the attention, and for exciting pleasing and wonderful thoughts of that Being "who in wisdom has contrived the whole !" When the ce-lebrated traveller, Mungo Park, found himself alone in the barren wilds of Afri-ca, robbed, maltreated, and then descried by grued and swage rubbers he sat for by eruer and sa some time gazing around him with amazement and terror at his utter aban-donment. "Whichever way I turned," he touchingly relates, " nothing appeared but danger and difficulty. I saw myself in a vast wilderness, and five hundred miles from any European settlement. At this moment, painful as my reflections were, the extraordinary beauty of a small moss in fructification irresistibly caught my eye. Can that Being, thought I, who planted, watered, and brought to perfection in this obscure part of the world a thing which appears of so smal! importance, look with unconcern upon the situation of creatures formed after his own image? Surely not! Reflec-tions like these would not allow me to despair. I started up, and, disregarding both hunger and fatigue, travelled for-wards, assured that relief was at hand-and I was not disappointed." It was an old opinion, and one which is not quite eradicated even at this day, that the earth, when dug up in any place, will spontaneously produce plants without seed. Nothing, however, caa be

matters called gluten, starch, sugar, and oils, which become the food of animals.

It is to the operations of vegetables, too, that we owe a considerable proportion of the soil which covers the earth. If we examine the rocks and stones around us, we shall find their surfaces covered with circular patches of grey and yellowish lichens. These are simple plants, the mi-nute seeds of which, wafted by the winds, fall on the rocks and adhere to them by means of a glutinous matter on the lower sides of the seed. Attracting moisture from the air, they germinate, increase, and then moulder to decay. Their reand then moulder to decay. mains, mingling with the mouldering rocks beneath, in time accumulate a certain depth of soil, which still goes on in-creasing till at last it becomes a deep bed fit for receiving and nourishing other spe-cies of plants that may be driven towards it by the agency of the winds, of birds, of other means which nature employs for the diffusion of vegetables. In this manner have our deepest and most fertile soils derived their origin. We find also vast accumulations of decayed plants making istence.