With every 2650 lbs of firwoud which are ycarly removed from nan acre of furest, o:ly from 0.114 to 0.53 lbs . of alkolics are abetracted from the soil, calculating the ashes at 0.83 per cent. The moss, however, which covers the ground, and of which tho ashes are known to contain so much alkali, continues uninterrupted in its grovth, and retains that potash on the surface, which would otherwise so casily penetrate with the rain through the sandy suil. By its decay, an abundant provision of alkalics is suppled to the roots of the trees, and a fresh supply is rendered unnccessary.

The suppusition of alkalies, metallic oxides, or inorganic matter in general, being produccd by plants, is entircly refuted by thesc well-authenticated facts.

It is thought very remarkable, that those plants of the grass tribe, the seeds of which furnist food for man, finlluw him like the domestec animals. But saline plants secs the sca-shore or saline sprnges, but the Chenupodium the dunghill frum similar causes. Salne plants require cominon salt, and the plants which grow only on duughills nced ammonia and nitrates, and they are attracted whither these can bo found, just as the dung.fly is to animal excrements. Su likewise none of our corn-plants can bear perfect seeds, that is, seceds yirlding flour, without a large supply of phusphate of magnesia and ammonia, substances which thry require for their maturity. And henec, thrse plants grow only in a suil where these three constituents are found combined, and no soll is richer in them than those where men and animals dwell together; where the urine and exerements of these are found corn-plants appuatr, because thcir sceds cannot attain maturity unless supplicd with the constitucnts of those matters.

## NEWS.

$0^{\circ}$ Cunnell and Repeal.- $O^{\circ}$ Connell has retired to his mountuin hume at Derrynane to find a seasonable respite in rural sports. He had decided that the Clontarf meeting should not be held. The threatuned "impeachment" was to be father considered of. 0 Connell proposed to travel through England prior to the meeting of Parliament, "state the facto to the English people, and then leave them to act for themselves."

It is said, in quarters likely to be well informed, that Sir Robert Peel meditates a deciddd legislative measure in regard to the systems of tenure of land in Ireland. The nature of his project has not transpired.

The Overland Mall.-The most prominent feature in the intelligence is, that a treaty had been concluded between the United States and the Celestial Empire, based upon the same principles as dietated that between England and China-in which America will enjoy all the advantages which Great Britain, by her arms, secured, after an immense outlay of blood and treasure.

It is very conmonly rumored in the city, that it is the intention of Government to exclude from the Court, and from the ministerial parties, all the forcign Ministers or Charges d'Affalres, whose Governments have not faithfully fulfiled their engagements with therr creditors in this country. Such a proceeding would place the United States Representative in a very embarrassing and unenviable position.
Sir Andrew Agnew, together with other friends of the Sabbath, has addressed a letter to Lord Aberdeen, in which it is requested that the movements of the Queen may be made so as nut to cause any breach of that huly day. It will probably be regarded. The Queen ss expected to visit the Isle of Wright, after her visit to Scotland.
The Queen's visit to Scotland 15 cxciting much interest in that country, the following ss one of the incidents recorded.
"The Queen and Lady Glenlyon went into a cottage and had some bread and milk." Another version makes the "cottage" a "hut," and varies the incident-"-"The gudewife was spinning, and the Queen sat down and conversed with her very affably for some time. The inmates did not know the rank of their visitors, - and in accordance with the custom, they put a bottle and glass on the table, and asked them to taste the mountan-dew." We arc not told whether the visitors did taste the whisky.
Free Church $^{\text {Cenl.-Our brethren of the Scotish Free }}$ Church are manifesting a zeal and energy in promoting the gospel, altogether new. Among the recent enterprises adopted, is bailding of a beautiful and convenient yacht, of thirty-seren tons, for the purpose of carrying ministers of the Freo Church on oc-
casional visits to the destitute parishes amn g the Mighlands. From the nature of the country, there are many of these places which are very difficult of access by land, but can readily bo reached by water- -Exangelist.
The Frencir and Slavery.-The following passage, from tho statement of M. Richardson, will show hw "Froncls civilization has abolishcd slavery" in Algcria :-
"Many black slaves, belicving that they cou'd nccape slavery, have fled from their masters to scrve among the Zuaves, or native troops; but the Minister of War has always given orders to send them back to their Masters. Mons. Licblane de Trebois relates a case of a couple of slaves who fled from $\mathbf{A b}$ del. Kader, believing they should find Algiers la terre de la lilerté, but who were restored by Marshal Vallee to the Emir, and these wretched fugitives were afterwards butchercd by their cnrayed masters.
"In Oran, slaves are bought and sold, and are beaten and maimed nt the absolute command of their masters, unrestrained by the French laws or authority."
Russian Serfa.- Brooks says, the serfs in Russia aro between thirty and forty millions in number. For his housc and patch of land, the serf pays his proprietor in labour, which takes about one half of his time, leaving him only the uther half to support his own family. Sunctumes a princely proprietor will have hundreds of serfs un his estates. This numerous class of Russians have little means of education, und are usually very ignorant and degraded.
United States and the Slave Trade.-The London papers luudly and must rightevusly complain of the insincerity manifest. ed by our Government in carrying out the treaties for the suppiession of the slave trade. The stars and stripes of our freo country are still employed to screen from British vigilance vessels loaded with slaves. A letter was recently addressed to our Minister, Mr. Everett, in which it was stated "that American shipping is employed in transporting to the coast of Africa merchandize, equipments, and other articles necessary for slave-trado operations." It appears also that it is a custom for slave-dealers to purchase a vessel from Americans, with a stipulation that a voyage or two shall be made to the slave-cuast under the sanction of the American flag, before the transfer of the vessel is, publicly made to the real owner. In other words, the flag of America is to be used as a protection to slave merchandize until money cnough is made by the horrible traffic to purchase the vessel.Evangelist.
Susday Schools in Balimore.-There was a very large and beautiful procession of the Protestant Sabbath Schools of Ballimore and vicinty last week, in which, by actual count, they wero 6211 children of both sexes, and 93 teachers. It is spuken of as one of the most delightful moral spectacles ever witnessed. The several schools were ranged under tastefully decorated banners. The procession was one hour and a half passing a given point, and marched to the Washington Monument Square, where addresses were made, hymns sung, and prayers offered. Who that can anticipate a quarter of a century, does not exalt and take courage at what this great and benevolent institution of Sabbath Schools is doing in the midst of us.

Popular Interpretation of the Fourti Comsandenent in the Unired States - "Remember the Sabbath-day to keep it holy." (or consecrate to religious dutics.) Except you peruse some one or more of the following wores of necessity as your worldly cmployment, viz :
Shaving and hair dressing. Keeping a livery stable, or driving a cab or hack. Attending a drug, medicine, and soda water cstablishment. Taking toll on a bridge or turmpike. Kecping a public house, and attending the bar. Driving a coach or stage belonging to a mail contractor, or are connected with the pust office. Are a conductor, enginecr, ticket-vender, or otherwise counected with a railroad company. Are employed at a ferry.Are engaged in printing and publishing a dally newspaper, or in supplying families with milk, bread or other provisions. Are a physic:an, and have an extensive practice. Drive a baggage or freight waggon, and divers others like emplogments.

A truc bill has been found in Baltimore aganst the Rev. C. T. Torrey, charged with enticing away slaves.
It is estimated that the present Mormon war will cost the State of Illinois $\$ 20,000$. The aggregate expense incurred during the year will not be less than $\$ 50,000$.
A newspaper is to be established at Willamette, in the Oregon territory, the materials for which are to be shipped at New-York to the care of Messss, Ladd \& Co., Oahu, Sandwich Islands.

