farmers' Department.

CALCAREOUS MANURES. -CARBONATE OF LIME.
(Continued.)

The Use of Burned Lime as an Application to the Soil .- The application of burned lime to the soil is of high antiq. uity, and its utility is such as has been recognized in almost every country in which agriculture has obtained much eminence; and certainly it has been more largely and extensively used as a fertilizer from a very remote period than any other mineral substance that has ever been made available in practicable husbandry. Cato describes with much min uteness the best means of preparing it; and Pliny attests the use of slacked lime by the Roman cultivators as a dressing for the soil in which fruit trees were grown. It was also applied with equal success by the Arabs in Spain. Hence it may be inferred that what has been good in all ages past is good at the pres ent time.
When lime is applied to the soil, it is

believed by some that it acts in two ways -one, as a stimulant that promotes vegetation by causing the soil with which it is mixed to exert itself, and the other, in promoting the growth of trees and plants by enriching the land as a manure, and adding to the quantity of vegetable food. By others, it is looked upon in a chemical and medicinal point of view, acting as an alterative, a corrector, a dissolver, or a decomposer-a disengager of certain parts of the animal, vegetable and mineral substances contained in the soil, and as a retainer and a combiner with others, but not as a substance, like dung of decayed organic matter, fit for the immediate use and nourishment of plants except in small proportions. It also produces a mechanical alteration in the soil which is simply and easily understood, and is the cause of a series of chemical changes that are really obscure, and are as yet susceptible of only partial explanation. In the finely-divided state of quicklime or slaked lime, or of soft and crumbling chalk, it stiffens very loose soils and opens the stiffer clays; while in the form of limestone gravel or of shellsand, it may be employed either for opening a clayey soil or giving body and firmness to boggy land. Thus, it proves very useful in tenacious, heavy, clayey soil, while it may be dispensed with in light ones, as scarcely, if at all, affecting them.

The purposes served by lime as a chemical constituent of the soil are at least of four distinct kinds, namely :-First, it supplies a kind of inorganic food which appears to be necessary to the healthy growth of all cultivated plants. Secondly, it neutralizes acid substances which are naturally formed in the soil, and decomposes or renders harmless other noxous compounds, that are not unfre quently within reach of the roots of plants. Thirdly, it changes the inert vegetable matter in the soil so as gradually to render it useful to vegetation .-Fourthly, it causes, tacilitates, or enables other useful compounds, both organic and inorganic, to be produced in the soil, or so promotes the decomposition of existing compounds as to prepare them more speedily for entering into the cir-

Burned or quicklime is of an alkaline basic nature like potash and soda .-Bodies of this kind form the chemical opposites to these of an acid nature; that is, they deprive them of their sour taste, and their acid properties and actions, in general, when they combine with them, most corrosive hydro-chloric acid, and in all cases where the soil is rich in or. Paper and Envelopes. the most caustic soap-boiler's lye arises ganic remains, especially when the air a compound which no longer tastes sharp has not had free access to it; consequentor caustic, but only mildly saline, namely, on new ground, reclaimed from forest, ly, common table salt. Their mutual results broken up meadows, and pasture land, acid, is called neutralization. and a new product arising from the two is termed a salt.

A good soil, in a state of readiness for culture, must not possess any acid properties. All the cultivated plants grow will keep soft and flexible, and not all less freely and less vigorously in soils will keep soft and flexible, and not all containing acids, then in such as are up and become hard, as when mixed up containing acids, then in such as are up and become hard, as when mixed up and become hard, as when mixed up to the planter and the erties. All the cultivated plants grow growth becomes inferior in proportion as should come between the plaster and the the quantity of acid in the soil increas. skin. The strength of the plaster is vaes. The production of acids takes place ried, by the addition of more or less CALL in every soil; for the humus, which originates both from the remains of plants and refuse remaining in the ground, and from stable manure, is of an acid nature; the soil, however, usually contains in its mineral constituents so many basis, (lime; magnesia, potash, and soda,) while the liquid acetate of lead, two parts. nitrogen of the stable-dung produces an- tain a small bottle full at any apotheother, (ammonia,) that these suffice to cary's. neutralize the acids formed, and to convert the acid into tempered or neutral-ized humus. Combined with bases, the humus undergoes a far more rapid and Good corn and clean water is the extensive decomposition into the food for by want of moisture, or by a superabun- offered \$1 each for them in Dec.

Lime is not merely a base, but a very trong base, and can therefore even extract from the weaker bases occurring in the soil the acids with which they are already combined. Hence, it acts with advantage in those cases where weaker bases are such as become soluble by com-bination with acids, and are in this condition capable of interfering with the growth of plants. Of this kind especially are the brses which originate from the ferruginous particles present in all soils cov ered with water, such as are situated in low-lands excluded from the access of atmospherie air by a fenacious covering. Humic and carbonic acids produced in such places render the particles of protoxyd of iron soluble, and these again cause the soil to become sterile or less fertile, just like the water which we see in ferruginous springs flowing from deposits of lignite or peat. On this account fresh, black mud from the ponds or lakes always acts injuriously upon, fields and meadows the first year; hence] the dead subsoil, when mixed at once with the surface soil, so often causés a diminution of fertility for one or more years. In like manner, in a soil which contains much pyrites, the oxygenation, or weathering, of the ground may readily produce so much soluble salt of iron (green vitriol; or sulphate of iron) as to disturb the growth of plants. In all these cases lime is an excellent means of rendering the iron insoluble, and, at the same time, of giving it a tendency to absorb oxygen from the air more rapidly and abundants ly, whereby the black prot-oxyd of iron s changed into brown ger-oxyd, (ironrust,) which no longer acts injuriously upen vegetation. Caustic or quicklime, as its name in

dicates, attacks the skin of the hand and

dissolves it in washing, in the same way as potash or soda lye, and has a similar ction upon other animal and vegetable substances, as many farmers, perhaps, have noticed on the sacks in which they have kept lime, which soon become rot ten and soft. When lime is mixed with the soil, it acts in this decomposing and dissolving manner upon roots, leaves, straw and other parts of vegetables, as also upon organic constituents of the soil; which are already partially converted into humus. It hastens the decomposition of those substances which are often very slow and disinclined to fermentation in heavy soils, not freely admitting atospheric air to a greater activity; that is, to a more rapid fermentation, putres faction, and decay. whereby they are decomposed into carbonic acid and ams monial which are then absorbed by the roots of the living plants as the most important of all their food. The action which lime exerts in this way clearly agrees in appearance with that produced by direct fertilizers, such as stable manure, guano, &c. But there is this great difference between the two. The lime does not work with its own material, but at the expense of other matter, namely, at that of the land or of its strength while the direct manures act with their own power. It is, therefore, self-evident that the latter enrich the soil, while lime renders it poorer. The universal effects of this independent, unmixed liming or marling of land, which has been established by practice in Europe, as well as THE Subscriber has just returned from the EASTER in many other parts of this country; is obvious nor only by the well-known German saying 'Rich father, poor children,' but also by the still more precisely ex-

pressed maxim,

"Muck lime and no manure,

Make both farm and farmer poor. Besides, on heavy, inactive soils, lime while on their own side, they give up basic properties. For instance, from the by its decomposing and dissolving power signation and delivering up of their char- reclaimed peat-pogs, salt-morshes, and acteristic properties, which occurs in all low-lying lands after they have been well cases where an alkaline base meets with drained But even burned lime frequently does not develop its effects second or third year.

(TO BE CONTINUED.)

MUSTARD PLASTERS .- By using sire flour.

CHILBLAINS .- The following discovery by Dr. William H. Weston, of Somerville, was never known to fail as a cure for chilblains : Laudanum, one part ;

HENS .- A hen if she is allowed her liberty will eat one bushel of corn a year. feed, with scraps of meat, &c., in the vegetation. that is, into soluble substan - winter. We have a hen that paid more ces applicable to the growth of plants, than \$10 profit last year,—she raised two while the acid humus, whether produced broods of chickens. (twenty). I was dance of peaty substances, undergoes hen if allowed to bring up a broad of further decay, but slowly and with difficulties will pay a profit of from \$3 to \$10 a year.

The American Citizen

ourt House.
TERMS:—52.00 a year, if paid in advance, or within the first first six months; or 250 if not paid until after

the expiration of the first six menths. TERMS OF ADVERTISING, &c.

OSITIVELY BE PAID IN ADVANCE.

C. E. ANDERSON, Editor and Proprietor.

Dec. 5 1866

Miscellaneous Advertisements. Farm for Sale.

THE undersigned offers for sale his FARM, located in Washingt on township, Butler county, being 107 Acres of good farming land; Sixty Acres of which are cleared, the balance well timbered. There is a good double Log Dwelling house thereon. A young orchard of Apple and Peach trees. Farm in good condition—of the Committee of the ROBERT SPEAR

ELECTION. THE annual Election for directors of the Butler Co Muhai Insurance Company will be held at the of fice of the Secretary, in Butler, Pa., on Tuesday, Jan uary 8th, 1807 at 1 o'clock, P. M. Dec 5 4t,

Election of Directors.

First National Bank of Butler, Pa. } The Annual Election for Nike Bractors of this Ban to serve for the ensuing year, will be held at the Bank ing House, on TUESDAY, January Sth., 1867, betwee the hours of 10 o'clock, A. M., and 4 o'clock, P. M., I. J. CUMMINGS, Dec 5 4t.

Administrator's Notice. JOHN MONTGOMERY, Adm'rs.

FARM FOR SALE THE sabscriber offers for sale his splendid farm

84 Acres of Choice Land, r a high state of cultivation two fine brick house of extra large size, one brick and one frame barr on erected; all these buildings are in good condi-A large orchard of choice fruit of almost every

This Farm is Well Watered. TERMS Made very easy to perchasers. For fur ther particulars call on the subscriber CHRISTIAN SEIBERT.

FARM FOR SALE

THE subscriber offers for sale the farm on which I now resides, situated in Penn township, Butler Co Pa 3 miles West of Saxonburg, 3 miles North-east of Glade Mills, and 2 miles East of the Allegheny are

125 ACRES.

NEW GOODS!

Large Stock of Goods, offers at his Store in Butler.

TOYS,

Wall Paper, Window Shades,

And Fixtures.

At wholesale and retail, at city prices H. C. HEINEMAN.

PLACE TO GET BARGAINS.



SEE

Saddles and Harness, COLLARS, WHIPS,

and all articles usually kept in his line of business which he will sell at reduced prices.

Ap All work made to order; and repairing done on the stortest notice. The line where the place. One door south of Sykes' Photegraph Gallery, Main Street, Butler, Pa.

P. P. BROWN.

Orphan's Court Sale of Real

JOHN SCOTT.

One Door South of J. M. Thompson's Law Office,

BUTLER.

A NNOUNCES that he is now opening and re

FALL & WINTER GOODS Consisting of DRY 000DS, of all descriptions, such;
CLOTHS.
CASSIMERES,
SATINETTS,
JEANS,
TWEEDS,
FRENCH MERINORS,
CODURGS,
1, 4e.

NOTIONS. Bendy Made Clothing.

FLANNELS OF ALL KINDS AND COLORS. BLANKETS.

CARPETS, And Oil Gloths.

Groceries, Hardware, Queensware, Hats. Caps,

Boots, & Shoes, SOLE LEATHER.

And all such goods as this market requires, which will sold CHEAP.

CALL AND EXAMINE No Trouble to Show Goods. Highest Market Price Paid for all

kinds of merchantable Produce. Nov.1466) JOHN SCOTT.

MIRS. WIEIDDILIDE'S

NURSING SYRUP!

FOR

Diarrhæa, Dysentery, Colic, Chol cra Morbus, Cholera Infan-tum, Fits from Worms, Wind in the Stomach and Bow-

els, &c., BUT REPUBLICATION FOR

Children when Teething! AND TO PRODUCE SLEEP.

MHIS Medicine is positively warranted superior to as other article of the kind in market, and in sold and way that persons and have their money refunded. aling on the Local Agent in not perfectly satisfactor #39-Sold everywhere at 25 cents per bottle.

J. C. REBICK # CO., Agents for Buttler

A SEWING MACHINE PREMIUM WILCOX & GIBBS' CELEBRATED noiseless Sew

Arthur's Home Magazine FOR 1867.

The HOME MAGAZINE is now so will known to the

This lady has become the arbiter of fashion in the inited States, and it is gratifying to know that her taste

inited States, and it is gratifying to know that her taste spure and womanly
TERMS yearly in advance—I copy, 2.50. 4 copies for 26.00. 6 copies, and one extra to getter up of claps of the copies, and one extra to getter up of claps and one extra state of the copies and the copies of the copies and the copies of the copies

OUR SEWING MACHINE PREMIUM. The machine we offer (WILCOX & GIRBS') is the No. 2, as described in the manufacturer's list, cash prace \$50, thrushed with heimmer, feller, and braider. This manufacturer is a constraint of its noiselessness, rapidity and casy sanagoment. A child can work is, rapidity and casy sanagoment.

Are you afflicted with a Cough or Cold? Are you predisposed to Consumption? Are the lives of your children in jeop-ardy from sudden and repeat-ed attacks of Croup? If so, purchase a Box of BLADE'S EUPHONIAL

LUBRICATORS!

THE PEOPLES MOST SURE AND EFFECTUAL REMEDY FOR COUGHS, COLDS, CROUP, CATARRH, ASTHMA, DIP. THERIA, BRONCHITIS, AND PULMONARY

DISEASES.

THE

Saturday Evening Rost

BEAUTIFUL PREMIUM EN

Reduced Prices to Clubs.

'E' EC BE NE SE

The getter up of a club will always receive PREMIUM ENGRAVING. Members wishing the Premium Engraving must remit

CARRIAGE SHOP



THE subscriber would respectfully inform the pt that be has erected a new CARRIA3E and V ON MAKING SHOP, on Extest, opp. J. H. Negley, and below the M. E. Church, where is prepared to do all kinds of work in his line of ness, such as ranking Buggies, Carriages, Wagons, leis, Steigha, and any thing in the line of Carriage

FOR SALE.

THE subscriber offers for sale his propecty situate is the borough of Emileuton, Vennagr county, Penagr county, Penagr consisting of one First-class Hotel with Warstonmat tached, situated at the Allegheny Wharf, at tageont begot is located; one of the best New Bara is the county, well calculated for Tarcen purposes, and Liver stable; also, one new Brewery, with all the apparatus only a few months in use, and in complete order. All dumnhause of Water, with dyramt to protect the built dumnhause of Water, with dyramt to protect the built dumnhause of Water, with dyramt to protect the built described.

ng from fire.

This property will be sold in part, or in whole, and o easonable terms. This property is well worthy of the lottice of any person or persons who may desire to pure hase.
For further particulars inquire of the subscriber ling on the premises.
Nov. 28, 1866—3 mos.

Jas. T, Brady & Co. (Successors to Jones & Co.) Corner Fourth and Wood Streets BANKERS & BROKERS.

PITTSBURGH, PA. Dealers in all kinds of
GOVERNMENT SECURITIES.
FOREIGN EXCHANGE.
GOLD,
SILVER and COUPON

Collections made on all acco

Interest Allowed on time Deposits.

Highest Rates Paid for Coupons.

GERMANTOWN TELEGRAPM A Family and an Agricutura Journal, Of the Largest and Handsomest Des-

Cription. HOICE LITERATURE, including Poetry, Noveletales, and Mozal Entertaining Reading generally, the Literary Department we shall present the chorarieties within the reach of our extended means. Novelettes, Tales, Poetry, &c., shall be supplied the best and highest sources, and be equalified.

arming, Gardening, Fruit-raising, &c. Our. 1s his department for over thirty years, have a ordinal approbation of the public. Our garpe sen to furnish useful and reliable information seems of the public of the public of the public overtimes and selfsh purposes of the many sup-ensation-adventurers by which the Farmer is on assailed. This portion of the Germanyous NEWS DEPARTM the price of subscription. NEWS DEPARTM the price of subscription. a discrimination in gathering and preparing the sign Events of the Day, expressly for this paper, wheeto has been one of his marked features and gir universal staffaction, will be continued with redoction to meet the thereasing demand of the same. Two dollars are

FRANK MOORE'S Anecdotes, Poetry, and Incidents of the War.

double column, beautifully illustrated legant Cabinet Steel Engravings
OPINIONS OF THE WORK.

GREELEY'S GREAT CONFLICT. MOORE'S ANECDOTES er form a complete History of the Rebellion

s sent on app lication

Address
JAMES PORTEUS, General Agent,
To. 45 Bible House, New York

Orphan's Court Sale. I VIRTUE of an order and decree of the Or Court of Butler county, the undersigned, of the Minor Children of Look Embangh, pect, said county deed. Will offer for sale isses, on WEDNESDAY, the undivided one-fifth or clock, F. M., the undivided one-fifth or clock, F. M., the undivided one-fifth or clock. W. M., the undivided one-fifth or clock. W. M., the undivided one-fifth or county. Bounded on the Norman way and Ames Kennedy's heirs, on Each and nedy and Ames Kennedy's heirs, on Each and the Education and other, on the South. V.

HENRY PILLOW, JOHN MYERS, Guardians

Administratrix's Notice.

THE LIGHT OF THE WORLD DR. MAGGIEL'S PILLS AND SALVE.

These life giving remedies are now, for the first time ven publicity to the world. For over a quarter of a publicity in these

LIFE-GIVING PILLS!

A VERY FOUNTAIN O YOUTH

An EternalSpring! THESE FAMOUS REMEDIES Cannot stay the flight of years, but they can force buck and hold aloof, disease that might triumph over the aged and the young. Let none heeltate then, but seize the favorable opportunity that offers. When taken as

FOR BILIOUS DISORDER

othing can be more productive of cure than theselfs. Their almost magic influence is felt at once; and a usual concomitants of this most distressing diseas Vegetable Compounds, They will not harm the most delicate female, and car

For Cutaneous Disorders. dalle uptions of the skin, the SALVE is most it unble. It does heal externs lly alone, but penetrates the the most scarching effects to the very root of the

DR. MAGGIEL'S PILLS Invariably Cures the Following

**Sold by all respectable Dealers in Medicines roughout the United States and Canadas—at 25 cents throughout the United States and pay box of pot, Fer Sale at Dr. ORAHAM'S Drug Store, Sole Agent in Butler Pa.

The Magazine for the Times.

PETERSON'S MAGAZINE.

Double size steel colored fashion Plates

THIS popular Monthly Magazine is the chea

A. ne world. In 1850 it will contain
OND THOUSEAND PAGES I
FOURTEEN SPLENDID STEEL PLATES!
FUELVE MAMMOTH FASHION PLATES:
TWELVE COLORED PATTERNS!
NINE HUNDRICH WOOD CUTS!
TWENTY-FOUR PAGES OF MUSIC!
All this will be given for oo! ZWO DOLLARS a year
or a dollar less than Magazines of the class of "Potes;
on." Its Thrilling. Tales and Novelettes

re the best published anywhere. All the most popul writers are employed to write originally, for "Peter 1." In 1867, i paddition to its mana pannity of shor ories, Four Original Copyright Novelettes will be given, by Ann S. Stephenst Frank Lee Bonol cf. Ella Rodan, and the Author of "Margret Howth." It also MAMMOTH COLORED FASHION PLATES

Ahead of all others. These plates wil- be engra-sted, twice the usual size, and will contain from six figures. They will be superbly colored. A pattern, from which a dress, mantilla, or childs can be cut-off, without the all of a mantua-make so, several pages of Househ island other receipts. It is the best Lady's Magazine in

. the World. TRY IT FOR ONE YEAR.

'D' C BO BED W -- Always in Adva One copy, one year

Five copies, for one year

Eight copies, for one year

Fourteen copies, for one year Pre m'iu or Getting up Clubs. To every person getting up a club of five, eight of outteen, at the above rates, a copy of the Yagazino or 1807 will be given gratis.

Specimens sent gratis, when written for.

Address, post-paid,

Address, post-paid, CHARLES J. PETERSON, Nov. 14 66.) 396 Chestaut Etreet, Philadelphia, Pa.

THE LADY'S FRIEND

REDUCED PRICES' TO CLUBS.

The LADY'S FELEND announces for 1507, the fol-lowing nevelets:—A New Story, by Mrs. Henry Wood, author of "East Lynne," "The Chaminings," &c. "How Woman had her Way," by Elizabeth, Prescott, and Woman had been Way, "No Longer Young," by Annada M. Dougles, "Been Lynne," &c., and When Case "19 M. Francisco".

(and one gratis)
(and one gratis)
(and one gratis)
(and one gratis)
of LADY S FRIEND

xtra.

3 Those desirous of getting up Clubs or Premium sists, should enclose fifteen cents for Sample Magazine ontaining the Particulars. DEACON & PETERSON,

GRAPE VINES FOR SALE.

THE HAMILTON Gold and Silver Mining

COMPANY
OF NEVADA
LOCATION OF MINES:

MAMMOTH AND NORTH UNION. NYE COUNTY, NEVADA

CAPITAL STOOK \$1,000,000

Principal Office, 224, S. orth PHILADEL ?P DEEEC.

HON. ALEXANDER RAMSE S. Senator from Minnesol VICE-PRESIDENT. ALFRED GILMORE, Philadelphia.

BOARD OF DIRECTORS.
HON. ALEXANDES RAMSEY
St. Peul, Mi
COL. JACOB ZIFGLER.

Butler, Penn WM. B. OGDEN, ESQ., ISAAC R DILLER, Esq.,

Hon. Robert W. Hamilton, GEORGE B. PRESBURY, Esq. FRANK STEELE, Esq., HON. ALFRED GILMORE.

HON. GEO. W. WOODWARD, Chief Justice of the State of Pennsylvania BANKERS. NATIONAL BANK OF THE REPUBLIO

THE HAMILTON Gold & Silver Mining Co.

OF NEVADA. of this Company issuinced in the Mam-Union Minimes Dutricts. Nec County, and comp a the following named es of siteer bearing quirts;
LEDGES IN MAMMOTH MINING DISTRICT.
Two lya hundred feet. wumeisige Ledge Twelve hundred feet.
Union Ledge Doe thion and feet.
Red Jacket Ledge Doe thion and feet.
Wahashaw Ledge Eighteen undred feet.
Offinea Ledge Twelve hundred feet.
Yellow Jacket Ledge Ledge Belgitteen indred feet.
One thousand the Company of the C

LEFORES IN NORTH UNION DISTRICT
LEFORES IN NORTH UNION DISTRICT
Hamilton Lege. Twelve hundred feel.
Hamilton St. Ledge, Twelve hundred feel.
Hamilton St. Ledge, Twelve hundred feel
(flows tedge, Twelve hundred feel
(flows tedge, Twelve hundred feel
(flows tedge, Twelve hundred feel
(free Valley Ex. Ledge, Twelve hundred feel
(free Valley Ex. Ledge, Twelve hundred feel
(free Valley Ex. Ledge, Twelve hundred feel
(for the Valley Ex. Ledge, Twelve

are paying from mise wood. A twenty stamp mill will consume wood. A twenty stamp mill will consume a day wood per day, at \$15 per cord, amounting per day, is the financia fact North Union per day, is the simply the cutting \$1 per cord, or \$20 to the simply the cutting \$1 per cord, or \$20 to the same. In the

Jas T. McJunkin, Esq., Traveling Agent to take subscriptions.

SECRETARY.

JACOB ZIEGLER,

Philadelphia.

TREASURER.

EDWARD F. MOODYushier National Bank of the Republic,
MANAGING DIRECTOR.

ROBERT W. HAMILTON

Col. John M. Wetherm. Pottsville. Fa.

E. REED MYER, ESQ.,
Surveyor of the Port, Phyla.
HON. T. J. COFFEY,

SAMUEL G. THOMPSON, Esq.

renty-stamp mill. Professar Bistchly, who is a scientific, collable, and

Profession of the Profession of the Profession of Argh and permanence. The richness, and well diffused throughout richness, and well diffused throughout profession of the Pro This more than dobtful if Professor Batchip Eaginer.

This more than dobtful if Professor Batchip speaks in these terms of any other mine in Nevada.

A twenty stamp mill can exush twenty tons per sky, but say that it crushes 15 tons per sky, (choice speciment from the Wantebage Jode has assayed \$1313 per 160), it is a few estimate to say that it will give an average yield of \$150 per ton, taken as it comes from the