

Farmer's Column. Heavy clay soils, should be plowed in the fall, that the frosts of winter may pulverize them.

Peas and Onions are the richest of all vegetables for food, and approximate nearly to animal flesh.

Good Manures—Hair, feathers, woolen scraps, leather, horns, dry blood, dry flesh, and fish, contain from fifteen to seventeen per cent of nitrogen, and are consequently good manures.

Oxygen and Nitrogen—A tree, weighing seven hundred pounds, requires thirty-four hours to preserve its health and growth. Without this, it will wilt.

Carbon—Carbon constitutes about one half of the organic combustible parts of plants and vegetables. The remainder of the organic matter is oxygen, hydrogen, and nitrogen which becomes solid in vegetation.

Oxygen and Hydrogen compose more than one half of the whole world, in the form of water. These gases, united, form water.

Lime, is less important as food for plants than as a chemical agent, acting on the soil, and facilitating those decompositions which liberate the valuable ingredients it contains, and brings them into a state fitted for the use of vegetation.

Soils must be porous—Soils must be sufficiently porous, to admit air to circulate through it, or it will not be fruitful. Minerals are only useful for vegetation, when oxidized, that is, when combined with oxygen. Thus iron, for example, is called protoxide, and will kill plants; after oxidation it is called peroxide, and is beneficial.

Ammonia and Nitrogen—Nitrogen is an important in the formation of plants.—It constitutes a large portion of the atmosphere; but plants cannot use it, except when combined with other substances, or in a compound state. The most valuable of these compounds is ammonia, which is composed of fourteen parts nitrogen to three parts hydrogen, forming seventeen parts ammonia.

Ammonia, is a gas much lighter than the atmosphere, and readily evaporates. It is an alkali, in some respects similar to potash; combining with mineral and organic acid, and has a strong affinity for them. It is absorbed by water, but will not combine with it. It is formed from decaying substances; and uniting with carbonic acid, forms carbonate of ammonia, which contains the four organic elements of all animal and vegetable matter.

Dissolve Bones—Every farmer should have a vat of ley, or the leachings of ashes, into which to put all the bones he can get.—This will dissolve them, forming phosphate of lime. If a strong solution of sulphuric acid is added, it will change it to a super-phosphate, and sulphate of lime, when it is extremely valuable for land. The ammonia escaping from it, unites with the acid, and forms sulphate of lime, or plaster.

The Remedy for the Weevil. Papers in all parts of the West have copied the recommendation, in favor of sowing lime to prevent the ravages of the weevil. The Medina Gazette, in copying and commenting the suggestions, add that in scattering the lime, it is best to walk backwards with the wind at the back, so that will prevent the lime from blowing in the face and on the clothing of the person doing the work. The suggestion in accordance with the practice, where the remedy has been applied; and is worthy of adoption.—Beacon.

Habits, are like flakes of snow that fall unperceived upon the earth, the seemingly unimportant events of life, succeed one another. As the snow flakes together, so are our habits formed. No single flake that is added to the pile produces a sensible change; no single action creates, however it may exhibit, a man's character; but as the tempest hurries the avalanche down the mountain, and overwhelms the inhabitant and his habitation, so passion, acting upon the elements of mischief which pernicious habits have brought together by imperceptible accumulation, may overthrow the edifice of truth and virtue.

The Sacramento Union says that a man has recently given them information that some one living in Humboldt county not long since, cut down a red wood tree, from which he built a two story framed house, twenty-four by thirty feet, and furnished complete; after which he fenced in a ten acre field, with rails split from his trunk; then sold enough of its body to build a friend upon a large hole; after which he found upon measuring the monster that only thirty feet of it had been used.

Energy. See how that fellow works! No obstacle too great for him to surmount, no ocean too wide for him to leap. He will make a star in the world and no mistake. Such are the men who build our railroads, dig up the mountains in California and enrich the world. There is nothing gained by idleness and sloth. This is a world of action; and to make money, a reputation and exert a happy influence, men must be active, persevering, and energetic. They must not quail at setbacks—run from lions, or attempt to dodge the lightning. Go forward zealously in whatever you undertake, and you will risk you any where, and through life—Men who faint and quail are a laughing stock to angels, devils, and true men.

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TERMS OF SUBSCRIPTION. The Sentinel will be furnished to subscribers at the rate of ONE DOLLAR AND FIFTY CENTS per annum, in advance.

RATES OF ADVERTISING. Twelve lines or less, one insertion, 25 cents.

Book and Job Printing. Having purchased a new JOB press, and added a large lot of new type in our already extensive assortment of job printing, we are now prepared to execute, in a style that cannot be surpassed by any office in this section of the country.

JOB PRINTING. Done in the finest style of the art, and cannot fail to satisfy the most fastidious eye. We will save you time and money, by getting a call. All orders promptly attended to.

BUSINESS CARDS. Tin, Copper and Sheet Iron. BECKLEY & RAWSON. Tin Copper, Tin and Sheet Iron manufacturers, one door west of the Frontis House, at the old stand of C. Prentiss.

R. P. & E. SPAULDING. Attorneys at Law, Ravenna, Ohio. Office in Phenix Block, directly over R. A. Gillett's Store.

ROGERS & SEATON. General Commission Merchants. And Dealers in all kinds of Produce, No. 130 South Water Street, CHICAGO, ILLINOIS.

W. B. TAYLOR. Attorney and Counselor at Law and Solicitor in Chancery. Office in Seymour's Block, up stairs.

WILLIAM CAINE, M. D. Homoeopathic Physician, Office No. 2, Phenix Block, over H. L. Day's Store, Ravenna, Ohio.

A. H. TIDBALL. Physician and Surgeon, Office at the stand formerly occupied by Dr. W. C. Brown, Portage Co., Ohio.

H. PRATT, M. D. Physician and Surgeon, Office in F. W. Seymour's building on the public square, near the Post Office, Ravenna, Ohio.

DOCTOR W. CLARK. Has removed to Franklin Block, Residence on the corner of a few doors South of the Episcopal Church, March 18, 1853.

M. RICE, M. D. Physician and Surgeon, Palmyra, Portage county, Ohio.

J. SMITH, M. D. Physician and Surgeon, Palmyra, Portage County, Ohio.

ISAAC COWLES, M. D. Physician and Surgeon, Palmyra, Portage county, Ohio.

E. Z. BROWN, M. D. Physician and Surgeon, Palmyra, Portage county, Ohio.

ROSELL WITTER & CO. Dealers in Staple and Fancy Dry Goods, Crockery, Hardware, Boots and Shoes, etc., at the old stand on Bay, Ravenna, Ohio.

PRENTISS, HOPKINS & CO. Dealers in Staple and Fancy Dry Goods, Ready Made Clothing, Hardware, etc., north side of Public Square, Ravenna, Ohio.

D. M. SOMMERVILLE. [E. B. REEVES, SOMMERVILLE & REEVES. Merchant Tailors—Newly appointed the Bank, Ravenna, Ohio. August 7, 1854.

J. T. SMITH, M. D. HAYES & SMITH. Physicians and Surgeons, office second door East of a Exchange, Marietta, Ohio.

D. R. J. G. WILLIS, DENTIST, respectfully informs the people of Portage county, that he has opened an office over Rawlin and Wines' store, in the west end of the Public Square, where he will practice his profession in the most skillful and successful manner.

DR. A. A. HARRIS, Dentist, Office in the Phenix Block, over E. T. Taylor's Store, Ravenna, Ohio.

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R. A. GILLETTS' ADVS. Great Commission Merchants. CLOTHING, HATS, BOOTS, SHOES, ETC.

THE undersigned is now receiving his Spring Stock of Ready Made Clothing, and is prepared to receive orders for the same.

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THE Emperor of Russia is Dead! BUT JOHN S. CLUTE is still alive and making those celebrated Cakes so much valued by good housewives.

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