FARM FIELD AND GARDEN.

DEVOTED TO THE INTERESTS OF FARMERS AND DAIRYMEN.

Views in Payor of Green Manuring-The greening editor of Hoard's Dairymen in Craps Most Profitable for This Par- this wise: pose-flow to Keep Milk for Transportation Second

The practice of enriching the soil by feeding it with green crops has enlisted the attention of many of our best form as at the top. In the orifics at the botare. The nervesity for restoring some of the fertility to our suils, which are much like the wheel of a squirrel cage. cropped each year, is apparent. There This wheel, placed so the wires run up must be a returning to as well as a taking from it, of the elements of fertility. Green wrop feeding is considered by many as the must mitting; feasible and economical method to which to return the plant food that is taken from our fields by continual cropping. Darayard manure will always, of course, remain with farmers the chief reliance, but that green sheet of fatless milk stands up against manural crops will be found to be a reliable and mexpensive adjunct to this is the rim, where it engages the skimmer the belief of a New Hampshire corre- and is run off in a vat outside. spondent in American Cultivator, who expresses himself as follows regarding the thin sheet of cream, and spanning a the crops to be employed:

The green crops most prolitable to be employed for this purpose are those de-nominated "nir feeders," those possessed of power to shooth the elements of orgamic life from the air, such as clover. laschscheat, rys. pens, heans, etc. Clover undoubtedly stands at the head of the list. It contains a large proportion of potash, lime, magnesia, nitrogen, chio- form of spray, the heavier watery part rine and carbonic, phosphoric and sul- of the cream instantly flies to and is inphurie acid. Its great value as a manurin) plant lies in the fact that its leaves helps to enlarge its volume. To do so it and stems absorb the larger part of its fertilizing mases from the nir, and take unity a comparatively small portion from the soil. It is a voracious "tair feeder." Moreover, its long, thick roots draw the fertilizing saline and mineral elements of the sub-seal up into the surface soil. and render them available as plant food. Buckwheat is also a valuable manurial groon crop. It is a rapid and hardy grower, and can be successfully grown on the same plot year after year without materially exhausting the soil. Two rops of it can be grown and plowed under on the same ground in one season, and the ground speded down with grass or a grain crop in September. It should be grown far more extensively than it is, its grain mining a complete poultry food, while its cultivation is strongly recommended as an eradicator of Canada thistles, witchgrass and other foul and

olinoxious weeds. The peaks of great value as a manurial crop, oven after the fruit has been gathered and the vines are fully ripened. They contain a very large proportion of potnsh, limis, magnesia, soda, carbonic acid and chloride of sodium, besides miphuric and phosphoric acid, and when plowed ansier, it puts the soll in the best possible condition for other graps, especially wheat and grass.

Bye is also a most valuable manurial crop, but on the score of economy is not an profitably used for this purpose, its grain being too valuable to be economically sacrificed as a manure.

weather of summer, when they are just a quick discuy from their immutured con- New York, Pennsylvania, Ohio and Wiss forty miles. consing into flower. They then take on

NATURAL GAS DIMINISHING THE NEW BUTTER EXTRACTOR. Description of a Machine in Which Dairy

men Are Interested. What is known as rock pressure is the The new Swedish butter extractor which excited great interest at some of carrying power of the gas. It must the inte nutumn fairs is described by the come from the wells under a pressure "The machine is of the size of the com-

mon separator, but looking more like the De Laval than the Danish-Weston. The howl differs from the separator in that

there is an opening at the bottom as well tom of the low! there is a trandle wheel, and down, depends from a rod that is at-unched to the cover of the machine. It at all possible to determine the amount is about five inches in diameter and of the same length. The bowl is run at a speed of 3,300 revolutions per minute, and no milk is fed in till the speed is up.

The milk, as soon as sufficient of it is fed in seeks the sides of the bowl, and a the inside wall of the bowl, till it rises to "On the inner wall of the milk stands seem, no formulas have been made to show the resistance of flow, so that it is

diameter that brings it just within the grasp of the revolving cage above described. This enge is propelled by the What is known as the Acme natural motion the swiftly rotating milk makes, and its office, so to speak, is to pick off the cream from the wall of milk. The action of the wires whips the cream thus detached, and while it is thus-as we suppose, for nobedy can see it-in the corporated in the wall of skim milk and must pass directly through the constant-

ly forming film of cream. The butter, almost devoid of milk, seeks the center and keeps dropping where it comes in contact with a 'knife,' or scoop, that receives it, and the continued accumulation pushes it to where it drops into a The butter has the appearance of granulated butter when it first forms in the churn. The machines now made are canable of extracting the butter from changes in volume that gas is. 1,500 nounds of milk per hour, provided

it is about common milk in quality." Clover Seed.

Relow is a record of the clover seed number of bushels: Clover Seeds. Other Grass Savis

tuli.

415,801 408.978 1000 1000 1551 199 1.017.701

1,003,082 The estimate for the present year is over out from a study of the crop production by states

sylvania, Ohio, New York and New tire crop, with Pennsylvania far in the lend:

CARTERS the Invisible Fach

great enough to propel it through a long ine of pipe. The principal supply for Pittsburg comes from a distance of from thirty to forty miles, some of it as much

s sixty miles away. It might be supposed that a simple braic problem would give the amount of flow through a given sized pipe under a known initial pressure and for a known listance. It would be easy enough to determine the quantity of water delivered under such circumstances, but it is not

> In the first place, there is an astonish ng difference in volume in gas under liffering pressures and different temperitures. A change of 45 degs, in tempersture of the gas will increase or decrease he volume of natural gas 50 per cent. A difference in pressure of 200 pounds will make a difference of at least onefirth in colume. Remarkable as it may

only possible to guess at it by isolated

gas pipe line, ten inches in diameter, which was one of the tightest and best ones ever laid, started with gas at 560 nounds pressure from the wells and brought it to the low pressure lines at the city limits at sixty-five pounds pressure-on enormous waste. A sixteen inch line from Murraysville, reasonably tight, left the well at 200 pounds press ure, and thirty miles distant gave only fifteen pounds pressure. Such figures as these simply prove nothing. It is known that the carrying capacity of a pipe ten inches in diameter istnuch more than twice that of a pipe only five inches in diameter, when it is water that is carried-and the resistance is known under certain pressures at the initial point with the pipe discharging freely at the endbut water is not subject to the great

GRONCHITIS,

Sold by all Druggists.

SCNOFULA,

These unknown quantities have not been made a subject of so much study by the natural gas companies as they would have been had there been more

time to study them. The whole business crop for thirty years. For the sake of is done with a rush. It is a singular fact, comparison is also given the production but nevertheless a fact, that no reliable of all other grass seeds for the same num- test has over been made of the temperaber of years. The figures represent the ture of gas as it comes from the sand rocks, and then what it is when it enters

the pipe. Several German scientists who were over here recently seemed especialy anxious to get such tests.

It was impossible to gratify them simply for the reason that all the wells are 2,500,000 bushels. Rural New Yorker drilled by contract, and no contractor calls attention to a curious fact brought | would allow the six hours' loss of time which would result by the stoppage of work each time such a test was made, In 1850 the states of Virginia, Penn- in order to allow the sand to regain its normal temperature after the heat made Jersey produced 80 per cent, of the en- by the friction of the drill had subsided. No known method has been devised In 1800 Michigan, Ohio, Pennsyl- for driving natural gas. It must carry

vania, New York and Indiana produced | itself or it does not go at all. Taking the 80 per cent., with Pennsylvania but a two instances named out of many that few thousand bushels ahead of Ohio. might be given, it follows that with crops, to renovate the soil, is in the warm in 1570 the same states produced 85 per small pipes there must be a high rock cent., Pennsylvania still ahead. In 1880 pressure from the wells, or the gas canthe states of Illinois, Indiana, Michigan, not be piped for a distance of thirty or

consin produced nearly 90 per cent. of Another question equally important in power to aid in the process of formenta- the crop, with Ohlo in the lead, closely determining the problem of stability is followed by Michigan. At the present the character of the sand in which th





A RARE CHANCE FOR A BARGAIN. sure that she has seen and talked with

old Santa Claus himself.

Interested People.



tion and decay. Lot our farmers try the practice of green manuring, and the refarm operations.

Experiments in Feeding Page. brief summary of the results:

than other feeds tested. Corn produces fat at a chcaper rate broads of the midge and thus escapes restoration; it is gone.

than other feeds tested Shelled corn produced pork at a profit for sixty-three days. Comment pro-duced pork at a profit for sixty-three days. Corneob meal produced pork at a years' experience in wheat growing. profit for lifty-four days.

readily than the Thin Rinds on the same ing wheat fields have been swept clean quality of food.

little gain in live weight that it may be black much. All of those who sowed profitably.

The pigs fed on nitrogenous foods | was destroyed by chinch bugs." were so much stronger than the others that they enused them serious injury when turned out to run together. of corneob meal and ship stuff in equal who claims that it is not only lighter and parts was the cheapest.

Haudling Grain Unbound.

A farmer writing to The Parm and Fireside reports as below: I have put up tuy onts loose for three or four years, and I find it far cheaper than to hind either by hand or by machine. The way I put mine up is to cut with a self rake machine, follow after, gather it up and appearing from the gulf states. shock it. Two men can follow a machine and shock to good advantage. Set the big tobacco crop. grain up on the butt end, the same as bound grain. If a man hires his grain bushels. cut, he will tay 55 cents per acre for a binder to cut the grain, and nothing less than 30 cents per acre, and often 45, for twine, and 39 cents for shocking, in all \$1.35. You can get your grain cut with a self mke for 50 cents per acre, and the grain set up in shocks for 20 cents, so there is a saving of 55 cents per acre. It bound grain.

Fresh Cous Every Month. A Long Island dairyman writing to

Rural New Yorker says:

butter for the past ten years and find it portation to Factory or City Costomera. best to have them "come in" every year. I like to have one or two calves in each desirable to keep milk a considerable month of the year. I think we can churn time, and of course it is necessary to keep more quickly and make better butter by it sweet. This necessarily occurs with having fresh cows each month. I have those who sell milk in towns and cities, no doubt that more milk and butter can and who send it to choese factories and he got from a cow that comes in the fall; creameries from a considerable distance. but, as we have a greater demand for but. Milk for such purposes must be cooled ter in summer, I prefer to have them down at once, but if ice is used we find calve at different times in the year. A that we are in danger of separating the good Jerzey cow will mills within a month fream, and that we do not wish to do. of calving, and I am quite sure will give If those who handle milk would reason more by calving each year than by going on some of the natural principles that two years. The heifer calves should be worth a good deal more. govern creaming they could take ad-

Beigical Hints.

It is well to have leaves, straw and lit-

time Michigan leads, and the crop is be- gas is found; whether it generates gas or coming more and more popular in that is simply a storage house which may, in to continue it as a settled policy in their state. Clover seed seems to follow wheat time, become exhausted. Gas is never -towards the north and west. The found in solid granite: it invariably comes

southern counties of Michigan are giving from a loose, porous rock. The object of some experiments made the more northern counties where farms as is found in some sections of the Murat the Kentucky experiment station was | have been cleared out of the pine forests. | raysville field. In other cases it may have to determine the relative values of In fact, it is believed by many that the appearance of greater density; but, shelled corn, corn meal and corncob clover seed will prove one of the most nevertheless, it will be found to be porous. useal for fattening purposes, and the profitable crops for these "stump farms," No gas sand that will produce a paying GEO.N. CRAMER, Ag't., well is of greater density than will admit port at a paying figure. In these trials are to bring the cash. The damage done of one-sixth of its volume in gas. The it was found that comment does not by the clover midge is great. A remedy gas is contained in the interstices of the fatten so well as does shelled corn. that appears to have given satisfaction, stone, possibly in a liquid form, because Nitrogenous food produced less flesh but a more hardy development than did non-sists in running the mower through the greatly condensed at any rate. The bornitrogenous foods. The following is a field about the middle of May, leaving ing of the hole allows it to escape: but it the product on the ground as a mulch. escapes from a store house, and when Shelled corn produces fat more rapidly A vigorous crop of blossoms will develop it is all out there is and can be no immeafter this. This comes between two diate or early process of regeneration or

Salt on Wheat Lunds.

A western cultivator with twenty The Chester Whites fattened more he has been successful while neighbor-The nitrogenous foods produced so clay loam, while theirs is sandy loam or knowing, later on.

attributed to growth and not to fattening. salt with their wheat this year had good plies must be on new territory. As the Cotton seed meni could not be fed plump wheat. One of my neighbors who sowed part of his wheat with salt invested in drilling a well (which in it Much corneob meal was wasted in had plump wheat where the salt was self reaches as high, in cases, as \$5,000) feeding, being picked over and refused. sown, while the balance of his wheat the opening of new territory must neces

Here and There.

A flour barrel made of cotton duck Of the nitrogenous foods tested, that has been patented by a Georgia genius

weather.

attack.

2.000.000 boxes.

Iowa chaims a corn crop of 335,000,000

The successful working of Arbor day can be stacked and threshod just as law in New York has called out a concheaply. Loose grain shocked in this gratulatory report from B. E. Fernow, way will stand more wet weather than chief of the forestry division of the de- would seem to offer the best explanation.

KEEPING MILK SWEET.

faults as on thine own. I have kept twenty Jersey cows for Frentmast That Conduces to Its Safe Trans It very often happens that it is very

We set milk in ice water to cream as

quickly as possible. Hoard's Dairyman explains: 1. We set it as soon as drawn ter in readiness, and all arrangements from the cow, while yet warm, and made to give protection to strawherries, never allow it to cool down before

place in the production of this staple to Sometimes this sand is actually pebbly.

MODEL

"Always taking out of the meal tub

and always putting in will soon exhaust the supply" is an old saw which is ax-MASON As there is no replacing of the iomatic. gas, as it cannot now be replaced, havtankes a plea for salt. He claims that ing been generated and stored countless years ago, it follows that there must be exhaustion of fields in time. How long? by chinch bugs. He says: "My soil is Well, we shall all come very close to The dependence, then, for future sup-

cost of pipeage is now as \$50 to every \$1 sarily become more and more expensive -C. T. Dawson in Pittsburg Dispatch.

Carlous Hallstonss.

which visited Philadelphia on Oct. 1

Curious phenomena of the hailstorm.

tute Journal. It is stated that on some

tals of clear transparent ice projected

from their outer surfaces for distances

an inch. "It is difficult to conceive,"

-Philadelphia Record.

ranging from an eighth to a quarter of

cheaper than a wooden barrel, but can last, are discussed by Professor Edwin be pressed into small space when empty. It is waterproof and impervious to the current number of The Franklin Insti-

It is waterproof and impervious to the A recent estimate places the Florida of the hallstones which foll, though not

orange crop for the coming season at on the majority, were well marked crys-The long leafed pine is said to be dis-

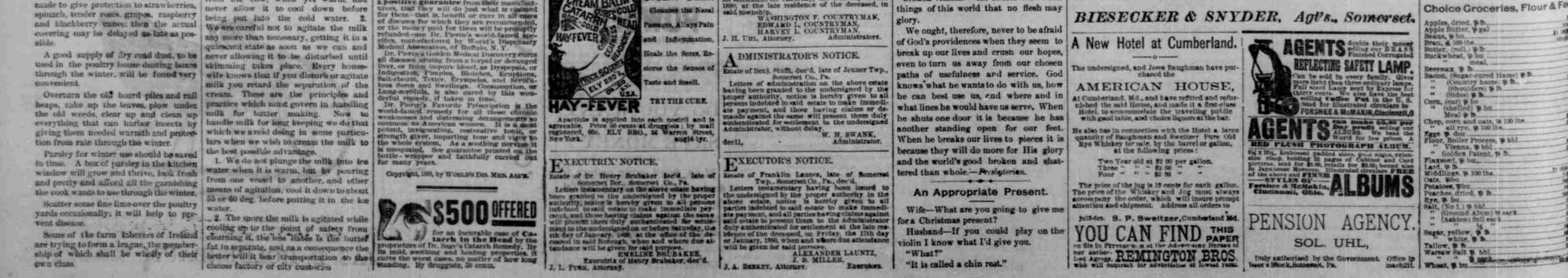
From Pennsylvania come reports of a

The cauliflower crop in some sections has been budly damaged by a wet season, and the same is true of the cabbage

formation. The formation of such crys-The Farmer's Review estimates this tals would seem to require comparative year's corn crop at 2,208,292,088 bushels. rest of the stones in a dense vapor a short period before their final full to the earth." theory of an ascending current of air

partment of agriculture.

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year for the sum of \$2,50. Address



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ate of Nancy Smith, doe'd., late of Salisbury get the "sweet amenities" of life. If it Estate of Namey Smith, dec'd., late of Salishury Brough, Somerset Co., Pn. Letters of administration on above estate hav-ing been granted to the undersigned by the prop-er authority, notice is hereby given to all per-sons indebted to said estate to make immediate payment, and those having claims against the same will present them duly authenticated for settlement on Frinday, the 10th day of January, 1866, at the residence of the Administrator, in said borough. N. F. SMITH. Nov27. Broken Lives. Broken Lives. God even seems to break them some-The second secon times that they may become truly useful. At least he can use broken lives in his service just as well as the whole ones ; indeed, it often appears as if men can never do much for God till they are "broken vessels." He choses the weak things of this world that no flesh may

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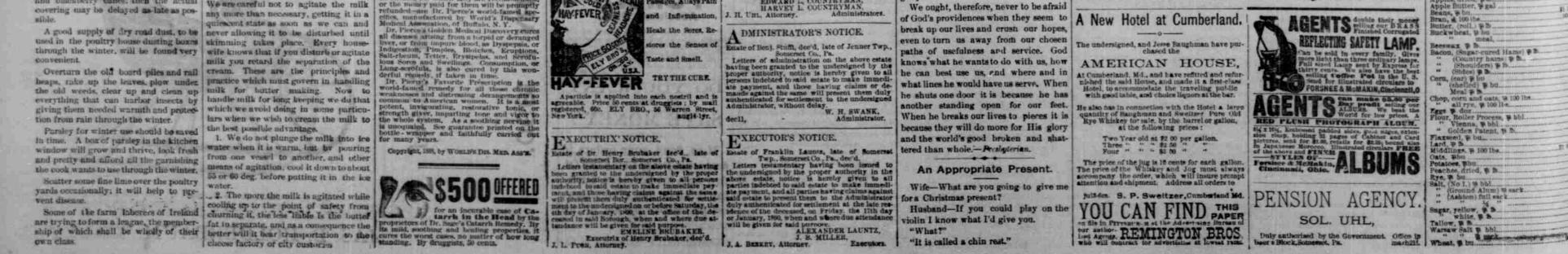
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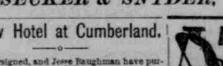
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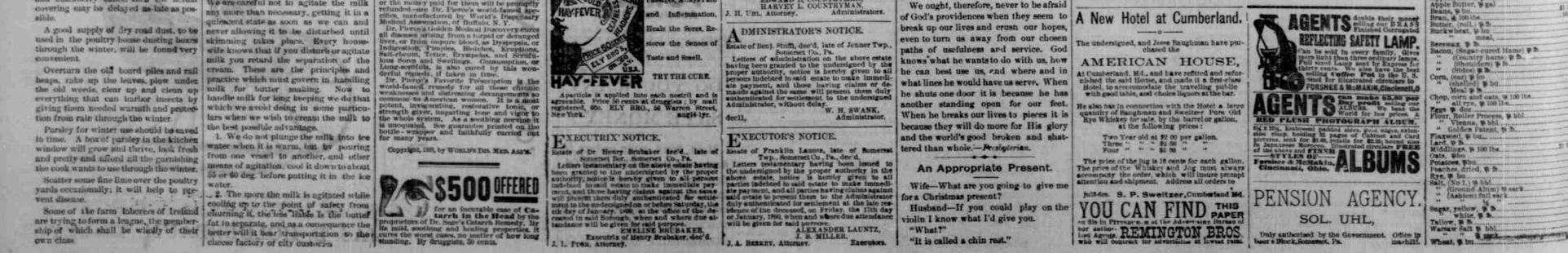














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