## Rural Economy.

#### AMONG THE BUTTER-TUBS.

one of our up-town [New York] hotels, deposited before him a plate of butter. erected? gentleman's countenance underwent a l'and astonishing change. He paused h suspended fork for a moment, then shed the plate from him with very eviether to ascribe it to excessive frugality, excessively bad taste, either of which ght prevail to an unlimited extent in the nty of Penn.

It was a new experience; we passed through it with doubt, with wonder, with incredulity. ver had there been such a going to marfor us before! We entered spacious halls, th arched domes and fretted windows, of tless architectural beauty and finish, and heat in all their arrangements as a lady's flor. There were rows of white marble nters, and spotlessly clean wooden stalls, ped with their tempting display of fruits vegetables. There were apples, fragrant of ruddy-cheeked farmers, young and gentlemen in dress and deportment, re-lentatives of the industry and wealth of adjacent counties. There were even adjacent counties. There were even

### FARM LANDS CAPABLE OF ÆSTHETIC

N. Y. Independent.

n of Penn spread it on their-daily bread.

am, and dripping with moisture. Higher

TREATMENT. Judicious location of a farm-steading, with view to profit simply, will be always near centre of the lands farmed: this is agreee matter. The ricks, the chimney, the skirting away of shrubbery and shadecharming nucleus for any stretch of fields. there be a stream whose power for meanical purposes can be made available, onomy dictates a location of the farm ildings near to its banks: taste does the me. If there be a hill whose sheltering ope will offer a warm lea from the northesters, a due regard for the comfort of lacorers and of beasts, to say nothing of early such sheltered position by the group of farm welop its own wanton wild growth of fort: a just landscape taste will suggest the me. If there be a broad stretch of meadow of marsh land, subject to occasional overw. or by the necessity of its position not ndscape gardening will also do the same.

gain, such rolling hill-sides as belong to

est farms of the East, and which by reason their declivity or impracticable nature are t readily subject to any course of tillage, be kept in pasture, and will have their

n in their fields or their orcharding.

#### THE ENGLISH SPARROWS.

The New York Evening Post has a corres-

bird into our city four years ago. The sparrows are daily fed and well provided for, and they have greatly increased in number. They are also fed daily in four other parks up town, where they are numerous and hap-py; but, not a bird-house is visible on one of the five hundred trees in Washington fall, a gentleman sat placidly eating his Park. Will not some lover of birds see to ner, when a waiter suddenly approached this at once, and have at least three hundred

Flocks of one thousand birds can often be seen in Central Park, and their pleasant chatter is delightful. About fifty were seen in Fifth avenue and Twenty-ninth street one t scorn, and said sternly, "I told you— morning this week, by an early equestrian.

BUTTER." The waiter retreated a little They have been seen forty miles north of They have been seen forty miles north of m's from, certain." "Indeed! where is good bird-boxes be placed in every promiy butter here!" We pondered upon this will repay their kind friends this winter, or gular fact in epicurean annals, in doubt early next spring and abide permanently. We have no other bird so destructive to the measuring worms, caterpillar race and insects, even to the mosquitoes. Jersey City and four of our parks, have been kept clear Jersey City. 'Shoot the rascals.'

### Scientific.

#### SCIENTIFIC LECTURES BEFORE THE YOUNG MEN'S CHRISTIAN ASSOCIATION. PROFESSOR F. V. HAYDEN-THE PLAINS.

The Hall of the association was filled with mellow, as if they had ripened under a an eager and attentive audience to listen to pical sky; hives of clear, sparkling honey; at jars of snow-white lard; sausages that weller could cat without a pang (before the sausages) wonderful clusters of grapes, whole walley of the Missouri came under rich golden cheeses. There were, too, review. The learned lecturer gave a complete account of its geography, its inhabi-

ners' wives and daughters, placid madescribed as a rolling prairie, one wave following another, much in the manner of the Quaker garb. Verily, it was almost Ar- waves of the ocean solidified. The absence a! But at last we reached the crowning of trees, except hear the water courses was y of that least of good things. We say mentioned. The grasses were described of wood absolutely spotless, bound with upon which the Buffalo feed for fully ten os of brass absolutely dazzling, filled months in the year, the grass drying into little rolls of butter, cut to weigh a hay as it stands on the plains. The lectuor quarter pound, stamped with vari- rer spoke of the vast herds of buffalo, the pretty figures, and enclosed each in a antelope, the prairie dog and the extensive nty little linen napkin. One of those villages in which he lives, also the grouse ious little rolls we tasted. Our new example and wild turkey. As to the Indians who ence reached its climax. Was THAT inhabit this region, Professor Hayden said ter? No! it was the essence of June that they had never, in fifteen years, while rnings caught and imprisoned in glowing travelling among them, betrayed the conficience in almost every museum dence he reposed in them. He had, time of any consequence. On submitting them into sweetness in the brooding sunshine, and again, lain down to sleep near their warm delicious flavor of new milk foam— villages, totally unprotected, when he would sist most frequently of iron in a metallic and in the overflowing bucket. Our eyes not have been at all surprised, had they at malleable, and not in an oxidized state; the ed involuntarily, and we saw the low tacked and murdered him and his party. ed involuntarily, and we saw the low tacked and murdered him and his party. Iron is in general mixed with nickel, and wn "spring-house," with the clear cool He had always treated them kindly, and had there are various compounds of magneter flowing over its stone floor, and the never failed to receive similar treatment at sia and silica, and in some instances just hing pans filled with yellow wrinkled their hands.

m, and dripping with moisture. Higher The geology of the district was the next trap and basaltic rocks of our own earth. higher our fancies soared. We thought topic. The upheaval of the whole Rocky These fiery messengers, then, bring with Ganymede. But the "beautiful boy" mountain chain was described,—the mountains being of primary formation. Passing aker gentleman, clad in gray, who would be resented such an allusion as heathenin a suppose degree, and yet and yet leter formations. Around the granite, were leter therein abounds similar to the matter which constitutes what lies below the crust of our own planet. But in a supreme degree; and yet—and yet later formations. Around the granite, were not only so, the positive handling and the Jupiter! thy nectar rare has come the azoic rocks, containing the gold quartz of actual analysis of this interplanetary, or, it region. Upon the upper part of the Mismay after all occasionally be, this interstelsouri valley are extensive tracts of lignite, or brown coal-and again, on the lower part of the river, from Leavenworth, eastward, the material constitution of the stars, nay we find another formation of bituminous of the very sun himself. It might seem a coal. The south-western portion of Dacotah | bold and a strange assertion to state that and the western part of Kansas, known as we possess any certain knowledge of the the bad lands, are the most barren of all the mineral constitution of the bodies so incondistrict, yet not devoid of grass. They ceivably remote from us that we have no abound in myriads of fossil remains, telling means to measure their distances, and if we le, moreover, to every landscape-ruling in of the ancient sea of which this was once had the means, we possess ho arithmetic the bottom—numerous tortoises, much like those of the present day. Also a species of hog, that in later ages roamed these plains and, as certain as it is, that a well instructed bes, if only order and neatness belong to in tens of thousands, was described. Speciem, as good economy would dictate, form mens of remains, which the Professor had brought with him, were exhibited. To describe what is in the plains now is comparatively easy work; but to reconstruct the district, as it existed in the former geologic eras, is a different business altogether-involving, as it does, research and labor that lead us among the sublime manifestations of sidered, for such purposes, hopelessly remote. the great Creator of the universe. The Professor was full and complete in his that so soon as we are unexpectedly able to garden crops, will dictate the occupancy of description, for the reason that many of handle masses of matter, which are the the young men before him would no doubt neighbours and the congeners of the sun and mildings: taste will do the same. If such in future years be finding their way out on of the stars, rather than of ourselves and of ope has its rocky fastness, incapable of large, and of little value for pasture, conomy will suggest that it be allowed to fortune. He is an enthusiast in his scientific researches. He displayed a fund of information gained by his observations that is mation gained by his observations that is and the very materials from the meteor most interesting and entertaining to his auplanets, which we saw on fire with our own tribes of the district, and give prairie life in guessed constitute the fires of the centre of full detail, which cannot fail to be highly our universe, and of those lesser lamps interesting. He believes in our young men which are too remote even to feel the might tributing his share toward their mental im-

provement. PROFESSOR R. E. ROGERS ON CHEMISTRY. A brilliant lecture was given before a crowded audience on the philosophy of combustion by Professor Rogers. He began in tle modicum of shade.

The value of a sheltering belt of trees is and the forces which operated upon it—
t sufficiently appreciated as yet by pracal farmers; but those who are not insensitive together by cohesion, but that gases were are now either enlarging their water works, to the quick spring growth under the lee anorthern garden-fence will one day learn forces upon matter, when a change took new sources. The following statement of t an evergreen belt along the northern place in the substances acted upon, was of their farms will show as decisive a called chemical action. The attraction of cities, will enable us to form an idea of the cohesion holds solid and liquid together; but merits of the Perkiomen scheme, as coma stronger attraction than cohesion existed pared with those of Paris, London, and between some substances, and when they were brought together new combinations resulted. Now, when the union of different substances is so violent as to cause light

of solution of litmus were turned red by are finished, the city will have a daily acids, and blue again by alkalies. Then a supply of 105,400,000 gallons, or sixty-six candle was burned under a receiver-and its gallons per inhabitant. dying flame watched. The change in the air fully described—the moisture deposited inside the receiver fully accounted for—and the by seven companies, of 108,500,000 gallons, whole theory of the union of carbon and or thirty-four gallons per inhabitant. The oxygen fully explained. Phosphorus was new works, to bring in the head waters of burned by being merely brought in contact the Severn, will furnish, as it is proposed to with iodine. The fact that nothing was ab | construct them, 120,000,000 gallons per day, solutely lost by combustion was then stated; or thirty-seven and a half gallons per inthat the old elements merely went into new habitant, and, when the full capacity of the combinations. For every six pounds of coal works is used, 220,000,000 gallons per day, burned in a stove twenty-two pounds of car-bonic acid gas went up the chimney;—and habitant. There is another project for supcomfited, and a moment afterward said, this city, and if gentlemen would invite beside that increase of weight, a certain plying London from the lakes of Cumber-our hearing, "I know where that gentle- them to their residences in the country, let weight of ashes always remained. Finely land and Westmoreland, at a distance of divided iron was then burned, and by a deli- 240 miles. By this scheme it is proposed t?" we asked. "From Philadelphia," nent fruit or shade trees with some oats or cate balance it was proved to grow heavier iter answered, emphatically; because they corn-meal, rice, &c., &c., in each compartas it burned, quite contrary, certainly, to our generally received idea of combustion. nent fruit or shade tree; with some oats or cate balance; it was proved to grow heavier to furnish 250,000,000 gallons per day, or as it burned, quite contrary, certainly, to our The galvanic battery was next explained; and an average daily water supply by the the fluid being the result of chemical union between an acid and a series of zinc plates, 431 gallons per inhabitant. When the and the result being the galvanic fluid, by which combustion was readily produced. The partial combustion of platinum wire was day will be furnished, or seventy-five gal-Shortly afterward we found ourselves unof worms the past summer by these little
exhibited, and then followed a series of the
stranger birds. It is reported that the owls
summy October morning we went to market. are making sad havoc with the sparrows in exhibited, and then followed a series of the lons per inhabitant. ted Ruhmkorff coil, which is the most powlong were given, which set fire to paper held in the range; an exhausted glass tube, three or four feet long and three inches in water from the Perkiomen, will supply in diameter, was attached between the poles, purple tinge lighted up the darkened room. Then the fluid was passed through various tubes filled with different gases, which changed the color of the light, in each, to green, orange, violet or blue. The rapid results in the old are completed, will be, per inhabitant. port of the sparks, the brilliant succession of colored illuminations, made a display, of which words cannot convey any adequate London (from the Severn.) - 66 gals. per London (from the Severn.) - 683. "London (from the north county lakes), 78" (Condon (from the north county lakes) port of the sparks, the brilliant succession tant: complished professor leave off his lecture. It lasted through nearly two hours, but many wanted two hours more.

Professor Rogers, too, has a high opinion of the association and of the work it is doing, and voluntarily lends his valuable assistance in adding interest to its classes.

#### CONSTITUENTS OF THE SHOOTING STARS.

We come finally to the question, what is the material, what is the mineral constitution of these strange bodies? We have already observed that they sometimes split into pieces high in the mid-air, and occasional ly strew the ground in their fall. We shall not now stop to give a catalogue of instances; they may be found elsewhere, and speto chemical analysis they are found to conthose very ingredients which are seen in the lar matter, serves only to confirm what modern skill has been able to detect regarding of the very sun himself. It might seem a which could convey any intelligible conception of the number of the miles. But so it is; observer, by analyzing light, can detect the material nature of the source from whence it comes, whether it may be from the com-bustion of iron, or nickel, or magnesium, or sodium; so certain it is, that the light from the sun and from the stars indicates the combustion of these very metals, in those bodies which otherwise we must have condience. He will lecture again on the Indian eyes in the mid-air and which we shrewdly Best, Most Celebrated, and the pable of thorough drainage, good farming interesting. He believes in our young men which are too remote even to feel the might and in their Christian association, and is con- of his influence. Thus suns and stars and comets, and nebulæ, and the meteoric dust which is sometimes spread upon our fields, are all bound together in one common material relationship.—Good Words.

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