Diffeudersfer, city; H. H. Tshudy, Litiz; T. F. Evans, Litiz; G. A. Geyer, Spring Garden; J. B. Lichty, city; J. H. Miller, Marietta; Washington L. Hershey, Chickies; C. L. Hunsecker, Manheim; J. W. Brookhart, Salunga; J. G. Reist, Mount Joy. New Business.

Under this head the following questions were sub-

mitted for discussion at the next meeting:

"Is it advisable to hold a poultry show next winter?" Referred to S. P. Eby, eq.

"Should fow! fanciers breed more than a single
variety?" Referred to G. A. Geyer.

Regular Discussions.

"What is a preventive for vermin on fowls?" "What is a preventive for vermin on lowist This question having been sessigned to V. J. Kafroth, who was absent, the discussion was taken up by Mr. S. P. Eby, who said that a first consideration was a clean nest to hatch in. Three days before the chicks come give the hen ard nest a good dusting with insect powder. If this is not done vermin will surely retard their growth and perhaps kill the roosts clean also. He keeps the hen house dusted with coal ashes mixed with dry earth. He removes these with the droppings occasionally, and no vermin get a foothold. The red spider louse often causes much trouble. Insect powder will remove the trouble. Ointments are harmful.

method to prevent vermin is to put Arr. Evans method to prevent vermin is to put tobacco into the nest where the hen sits, along with dry sulphur. In the poultry house he uses coal oil and tobacco siftings. The young ones he treats with a preparation composed of one part of oil of sassaa fras and seven parts of sweet oil, and greases, the chicks under the wings. He recently tried this on badly infected chicks, and it killed them at once. H. H. Tshudy believes in a liberal use of dust. He

uses street dust with fine lime, and finds it does very well. Lice gather in small openings in the boards of roosts, where they can be reached with coal oil. It is a bad plan to set heus in the same room where others roost. He has never tried coal ashes, and is a osu pinu to set heus in the same room where others roost. He has never tried coal ashes, and believes in tobacco siftings and sassafras oil, al-though he has doubts about greasing chicks with anything; cleanliness is the main part. Mr. Evans said a dust bath of any kind is good. Fancy fowls should, however, have the kind that

preserves their plumage best.

Mr. Geyer's way of setting hens is to use tobacco in the mother's nest. Birds that run in the fields freer of vermin than those more confined Mr. Miller uses a box filled with coal dust; car-blic acid insect powder he also finds very good.

He uses the insect powder mill to apply the powder with—it reaches the skin in this way. S. P. Eby has known tobacco to kill larger animals

than birds. Insect powder can be used on canary birds, showing that it does not affect the health of R. Diffendersfer uses street dust, in which sul-

P. R. Dinenderner uses screet dust, in which suppur has been freely put.

Rev. D. C. Tobias said since our last meeting had received a letter from Mrs. R. Baldwin, who gave a new method for removing the membrane or

worms from the windpipe of chicks afflicted with gapes. It was the use of the thin wire wrapped gapes. It was the use of the thin wire wrapped around the silk or gut of a G violin string. This was introduced into the windpipe and the spirals entangled the dangerons obstructions and broug them them along when the wire was drawn out. This remedy seems a very simple one and can easily be

R. Diffenderffer said he had a hen that afflicted with leg-weakness. For a few days after being taken from the nest with her chicks she was put on a board floor, where the disease first de-veloped. The chicks were taken from her, but the ase still remains, although not so severely as at

J. H. Miller recommended rubbing the legs v ammonia

There being no further business before the society, it adjourned.

THE BEEKEEPERS' ASSOCIATION.

THE BERREIFERS ASSOCIATION.
The Lancaster County Beekeepers' Society met
on Monday afternoon, May 12, at 2 o'clock, in the
parlor of the Black Horse Hotel. The following
members were present: J. F. Hershey, Mt. Joy; I.
G. Martin, Earl; D. H. Linther, Millerswitte; John
Bulter, Feques; D. J. L. Wenger,
G. Martin, Earl; D. H. Linther, Millerswitte; John
Games, Enbwara. Henry Shifty, Pennyllie; J. B. Gorgas, Ephrata; Henry Shiffer, Pennville; J

Gorgas, Ephrata; Henry Shiller, Pennville; J. B. Eshleman, Ephrata; Henry Huber, Pequea; Adam Shreiner, city; P. S. Reist, Litiz.

The meeting was called to order by the Vice President. In the absence of the regular Secretary, Mr. F. R. Diffenderffer was elected Secretary protem.

Condition of the Bees.

Mr. Hershey reported that he had wintered seventy Mr. Hersney reported that he had wither trans-swarms indoors, and all came out strong in bees and brood, and had plenty of honey. He dug in the ground four feet and made a frame of boards and filled in with sawdust. Boarded up the whole build ing and inserted ventilators. They wintered very well. The temperature should be kept even at about 40 degrees. He had no trouble in reference to mouldy combs.

Mr. Detwiler went into winter quarters with seventy-five swarms, and all came out strong. He

sevenity-five swarms, and all came out strong. He took his swarms out only once in three months.

Mr. Lintner went into winter quarters with thirteen hives. He left them on the summer stand. Four of them died of dysentery. The bee house whill close to a feuce, and there was considerable noise which caused excitement. The others had dysentery, but he stopped it with antieseed oil mixed syrup, and they are now doing well. hich died had plenty of honey.

Mr. Kreider went into winter quarters with four-en swarms, and lost two. His bees are now all oing well. He packed chaff around two swarms, and they are now doing better than the rest. and they are now

Mr. Shiffer had thirty-eight swarms in the fall and Mr. Samer nauthrey-eight swarms in the last are just left them on the summer stand, and all came out in good condition. He puts corn folder around the houses to keep them warm. He fed the bees five or six pounds of honey in each box, and that kept them in good condition

Mr. Martin went into winter quarters with ty nine colonies packed in chaff, and they are now it very good condition in bees and honey. Some were very weak when he went into winter quarters, but are now in very good condition. The bees had a fin January and one in February, and very few during the remainder of the winter. All the bees in Earl

the remainder of the winter. All the bees in Ear township are doing well.

Mr. Eshleman put up thirty colonies about the middle of November, and lost two, one became queenless and one died from want of food. His bees built a shed tect them from the north winds. The advantage of packing in chaff is that you will have a larger brood in spring. By giving them proper attention you could make it more profitable.

Mr. Gorgas wintered eight swarms of bees well, and they will be ready to swarm as soon as any in

the neighborhood.

Mr. Davis went into winter quarters with twenty eight swarms on summer stands, and all are dois well. He uses no housy board. He has a she He has a shed built to protect them from the north and west Mr. Reist knows of fifty or sixty swarms that all came out well. They had no protection except from the north wind.

Hershey reported that he had a letter from New York State, which reported very heavy losses in

Mr. Huber thought it more necessary for bees have good ventilation in winter than in summer. He found that plan worked very well. There should be found that plan worked very well. There she a chaff cushion on top to absorb the moisture. Mr. Reist thought there should be an understand-

ing among beekeepers as to how much honey they ll and at what price.

Mr. Hershey said honey was selling at his place for 19 or 20 cents. The price will depend upon the size of the crop.

Dysentery in Bees

The following question had been referred to Mr Davis: "What causes dysentery in bees?" He thought extremely cold weather without a fly would

cause the dysentery in bees.

Mr. Hershey thought dysentery was caused by chilling and bad honey for food. They must eat a certain amount of good honey in order to keep up

Mr. Huber thought bees were as much subject to dysentery in summer as in winter. He thought they were feeding on some kind of food which was not

Mr. Eshleman thought dysentery was caused principally by the food. You will find dysentery in

summer as well as in winter.

Mr. Hershey said he had weak colonies with as good honey as the strong ones. The strong ones got the disease while the weak ones did not.

Mr. Reist said sweet cider would not produce dysentery, while sour cider would. He thought it was caused by unwholesome food.

Virgin Queens.

"Will a virgin queen, if she meets no drone within ten days, afterwards prove fertile?" Referred to Mr. Hershey.
Mr. Hershey said he had queens that went eight

or nine days after they were batched before they met the drone, and they proved fertile. He knew them to go out within fourteen days and then become

Mr. Huber said the queens mostly came out the third day, if the weather is favorable. Sometime since he found a box that was queenless. He pro-cured a queen before he had any drones, and when

cureu a queen beiore ne naa any drones, and when the eggs were hatched they were all drones. I. G. Martin said he had a queen that could not fly out, and every egg she laid proved a drone. Mr. Davis had a queen that could not fly, and she became fertile and perfect; her hive was well sup-

Business for Next Meeting.

plied with bees.

"Should glucose be fed to bees or not? to I. G. Martin for answer at next meeting.
"What is the best method to prevent increase?" Referred to P. S. Reist for answer at next meeting.

Introducing Queens,

Mr. Hershey read the following paper: Three months have passed since we met last, and Intre mounts have passed since we not less, and now we are here again to see how we can improve beekeeping in our day. The honey season has now commenced, and we have to work among our bees. As the season for introducing queens is at hand I will try and say a few words about the subject. I first remove the queen from the swarm where 1 want to remove the queen from the swarm where 1 want to put the Italian queen. I put the Italian queen in a wire cage, and put a stopper, made of some comb that the bees did not breed in yet, in one end of the cage; the other end I pinch together. Now hang the cage with the queen between the combs near the brood, so that the bees will cluster on it. If the stopper is not made too large and pressed too tight together, the bees will liberate the queen in 24 or 36 hours. If the boney is plenty in the fields and the bees store pretty fast, I take the cage out the third day after I have put the queen and cage in. If the day after I have put the queen and cage in I have honcy is scarce and the bees store very little, I wait one week before I take out the cage. I don't disturb the swarm at all for one week. The bees will liberate the queen in a few days, and she will lay just as well with the cage between the combs as if the cage is out. If the cage is taken out as soon as the bees out. have liberated the queen, then she has not commenced to lay yet, is light and wild, and will run over combs. the bees will go after her and get hold of her and then she tries to get loose. Then she will be surthen she tries to get loose. Then she will be sur-rounded, and the bees will smother ber. As soon as a queen moves fast over the comb the bees go after ber. If it is their own reared queen they want her to move slowly over the combs. If a swarm is not disturbed in one week after the queen is introduced with the cage, then she will be out and laying; is heavy with eggs, feels at home, and will move slowly neavy with eggs, leefs at home, and will move slowly over the combs. A great many of the queens that are killed when introduced are killed on account of the swarms being disturbed before the queen bas commenced to lay. Queens that are shipped and have stopped laying for three or four days, are harder to introduce than queens that are just changed from to introduce than queens that are just changed from one swarm to another in the same apiary. The best time in the day to introduce queens, when honey is scarce, is in the evening just before the sun sets; time in the day to introduce queens, when honey is scarce, is in the evening just before the sun sets; then very nearly all the bees in the other swarms are at home, and if they would try to rob, night would soon overtake them. The next morning bees that were disturbed by the introduction of jhe queen will ready for a fight if strange bees should the honey is plenty in the field a swarm can be opened at any time in the day with safety to introduce a

queeu. Mr. Martin tried Mr. Hershey's plan and only failed ouce.

The Honey Market.

Mr. Martin read the following paper Marketing honey is of great importance to the beckeeper. If we had but a small number nies we can find ready sale for our honey at and it is not of much importance in what shape it is and it is not of much importance in what shape it is put up. But if we have a large number of colonies and get thousands of pounds of honey, we must have some other than the home market. Honey to be sent to the city market must be put up in neat and attractive shape, and so arranged as not to give the attractive snape, and so arranged as not to give the dealer any trouble. One leaky box or can may do great injury. Comb honcy sbould be chiefly in small sections of one and two pounds each, for such packages are sure to sell. They should be clean and white; the honey should be taken from the bees a soon as it is capped, for if it is on the bives lone after it is capped, it will get dark-looking by the bees traveling over it. By having it in sections which only contain a single comb, the consumer can see what he buys. The sections can be glassed if the market demands it; but I think it will sell better without glass, because if the consumer wants to buy a few pounds of honey he does not want to pay for one-fourth weight of glass which he cannot eat. I think the two-pound sections are preferable for the following reason: the bee will store more honey in them thau in the one-pound sections, for by using the one-pound sections for by using the one-pound sections the bive is too much divided into small compartments. Besides, we can afford to sell them cheaper, and the consumer will not have so much tare as when he buys them in the one-pound sections. But if the market demands the one-

pound sections, then we should furnish them.

If separators have been used (and every progres sive beckeeper should use them), these sections will be in good condition to be glassed, if glass is deor in good common to be giassed, it giass is de-manded; and they will also be in nice shape to be shipped without glass, as they may stand side by side without marring the comb. These should be packed in crates of one dozen of the two pounds, or two dozen of one pound sections; and the crates should have glass on two sides, so that the boney may be seen.

Extracted honey has all the flavor and is in every Extracted honey has all the flavor and is n every way equal, if not superfor, to comb housey. When the people once know what it is, and know that it is not strained honey, the demand for this article will largely increase to the advantage of both the consumer and the producer. Extracted honey is the pure honey removed from the combs and is free of all impurities. It is not the strained honey, pressed out of the comb and which contains pollen and brood, which impurities are mixed with the honey. Extracted honey should be put up in glass jars—the one-quart fruit jars are very good and will hold three pounds each, and when 'hey are empty, they are very useful in every household. But if the market demands smaller jars, that will hold only one and two pounds aplece, they should be furnished and nicely labeled and put in crates of one dozen and nicely labeled and put in crates of one dozen

Further, we should instruct buyers that extracted honey will granulate in winter when exposed to a low temperature, and that granulation is a piedge of

low temperature, and that gramulation is a pledge of purity; for honey adulterated with glueose will not gramulate, and that gramulated honey can again be brought to a liquid state by simply placing the Jar that contains it in bot water until it is melted, but and long enough to bring it to the holling post of the contains to the relation of the contains the contains the contains to the relation of contains the c charge you a commission.

On motion, adjourned to meet on the second

Monday in August.

FULTON FARMERS' CLUB

FULTON FARMERS CLUB.

The May meeting of the club was held at the residence of Wm. King, Little Britain township. All the members were present except Joseph R. Blackburn and S. L. Gregg. Visitors, Jonathan Pickering and Alice Coates.

In answer to the question asked at the last meeting (Which, it, his heat cherry for general use?")

In answer to the question asked at the last meeting, "Which is the best cherry for general use?" E. H. Haines said that a friend of his, who has a great variety of trees, considered "Coc's Transparent," the leading variety.

Wm. King: What is the cause of the cherry trees aplitting in some localities, and what is the remedy

No one present was able to give any satisfactory information on the subject.

Day Wood: What is the prospect for fruit this

W. P. Haines: No blossoms on the Baldwins; most other kinds tolerably full. most other kinds tolerably full.

E. H. Haines had been around quite an extent of country this spring. According to his observations there would not be a full crop of apples. Pear and cherry trees were full of blossoms. Siberian crab apples also bid fair to make a full crop.

Josiah Brown: Would lik be better to sell wheat at

present prices than to hold it? present prices than to note it? In answer to this question, the club all concurred in the opinion that there were no indications of a rise in the price, although the prospect for a full crop of wheat next harvest in the lower end of Lan-

crop of wheat next narvest in the lower end of Lan-caster country was very poor.

Montillion Brown: What has been the experience of members in mulching wheat? In three cases where it was tried in this neighborhood it has been a

decided injury to it.

Day Wood had noticed the wheat referred to, but

ad no experience himself.
William P. Haines and Joslah Brown had each

amilian P. Haines and Josiah Brown had each maured some wheat after it was drilled in. It did not benefit the crop like that where it was plowed under, though no injurious effect was noticed. Charles S. Gatchell had noticed another piece of wheat besides the three spoken of, where mulching appeared to have a bad effect. Had tried it himself and the grass after it were benefited by it. Grace A. King: What will remove the stains made by lubricating oil from clothing? Mary Ann Tolliager: Put on lemon juice and expose to the sun: Sheep sorrel and salt will take out from rust. Never found any oil stains that would not come out by washing and drying on the grass. Eather K. Haines: What kind of peas are best for late planting?

Late Planting: Champion of England, for both early and late planting.

Josiah Brown: What is the best way to destroy the Sodom apple or horse nettle (Solanum Caro-

(inense) /
Most of the members that had any experience with
this plant thought this a very hard question to
answer, as it is nearly indestructible. Some of them
advised covering the ground with straw or some
other substance so thick that all vegetation would
be determed, write acla with it.

other substance so thick that all vegetation would be destroyed, using salk with all, ourned to dinner, after which the cibb made the usual impection of the farming operations, live stock, etc. But little change was noticed in the stock since the club last met at the place. Buildings somewhat improved and some new fence noticed. See in.

Afternoon Session

Afternoon Session.

In lieu of an essay the boat read some articles from the New York Tribune, giving the Higgins the Mission of the New York Tribune, giving the Higgins being gathered in the ordinary days the being gathered in the ordinary days the soon as it comes, is gradually cooled down to about \$40, when, instead of althering in a mass it gathers in small pellets about the size of grains of wheat. Then, instead of working, the milk is washed out

with cold water, or, what is better, brine. It is then

salt d to suit the taste.

Day Wood objected to the use of so much water. He knew plenty of good butter makers who did not wash their butter, because it was injured thereby.

Aftee Coates had been trying the method since she

saw the articles that had been read. She found some difficulty, but was improving. She, too, knew of butter makers who objected to the use of water, of butter makers who objected to the use of water, but in nine cases out of ten it would benefit more

than hurt.

Mahel A. Halmes recited "You are Growing Old Together;" Grace A. King read a selection on "Silence," and Charles S. Gatchell "Evidence of Success in Farming, from The Practical Farmer. by a disinclination to labort," was next discussed at some length, most of the members coinciding in the opinion that a disposition to be idle did not follow the Introduction of machinery, although a disinclination to do by hand work that which could be done by machinery was very apparent among laborere

H. Haines, Day Wood and William King were E. H. Hanes, Day Wood and William King were appointed to make inquiry, and report to a future meeting whether, in their opinion, dairy factories can be successfully carried on in this community. Adjourned to meet at C. S. Gatchell's in June.

LINNÆAN SOCIETY.

A stated meeting of the society was held Saturday, May 31st, 1879, with Prof. J. H. Dubbs in the chair After attending to the reading of the minutes, etc., After attending to the reading of the minutes, etc., the donations to the museum were examined and found to consist of three mounted specimens of birds: The "Harlequin Duck," with its numerons synonyme; a fine Polish Bantem, per Mr. George Flick, the well-known taxidermist of this elty; and a fine specimen of the Golden Growned Thrush, per Mr. Snyder, North Queen street; a pair of bectles, skip jacks, per Mr. Reynolds; sulphate of copper and native formerly used in the telegraph office; a beautiful black and red bean or seed, per Mrs. Zell (a similar bean-like seed grows on a suike in plants alied to back and red oracle seed, per Mrs. Lett (a shifter hean-like seed grows on a spike in plants allied to the tapioca or Indian Turnip family); two large lumps of brown oxide of iron, from Mr. Fordmy's farm, Warren county, Virginia, per S. Johns, of this city, a variety of the Hematite; a box of lichens and mosses, per S. S. Rathvon.

Historical.

Copy of the Federal Intelligencer, Baltimore, December 29th, 1794, containing interesting historical matter; five envelopes with sixty elippings of interest from various papera, per 8. S. Rathvon.

Iriom various papers, per S. 5. Radivon.
Library.
Official Patent Office Gazette to May 20th, 1879;
The Lancaster Parmer for May, 1879; botanical contributions from Vol. VI; Botany of the Wheeler Government Surveys, by Frof. Thos. C. Porter, sent to Prof. Stahr, for the society; Pamphlet, Naturaliste' Leisure Hours, A. C. Foot, December, 1878; books, circulars and advertisements.

Papers Read.

Ornithological notes, on the aleposits, the Harlequin Duck, No. 518, S. S. Rathvon, (*aina glacidis, Lin.) This peculiar duck has any number of common names besides that of "Harlequin," and generic names to suit any group; in short, 112 synonyms are or have been given to it. Paper 519, on the "Golden Crowned Thrush," (*Scienza caro capitlus, Sonianon*), giving interesting particulars of the species, and Although the name is usually accepted, D. S. Jourdan, in his tate popular work, does not give the generic name Scienzas, nor can we find "Golden Crowned Thrush." He has a "Golden Crowned Thrush." Superier name of Reputas, and Lichenstein's specific name, R. Satropa, Cassing and Lawrence, published 1828, under two distinct genera. Such changes or omissions are very provoking to the student. In V. Satropa, in section of the student. tinct genera. Such chang provoking to the student.

A paper, No. 520, was read by J. Stauffer, in rela-A paper, No. 520, was read by J. Stauffer, in rela-tion to a rare bird caught by Amos Kauffman, in a woods between Manhelm and Sportling Hill, near the resistence of Amos Kauffman. The children notified that the property of the property of the paper of the have now caged; it seems to be a pugnacious bird, but is gentle with young chicke. A similar bird was shot by Charles Lehrer, in the vicinity of Mt. Joy, May 9th, 1865. This shows that the Purple Fadilizata, occasionally visits Lancaster county. Wilson con-tained the property of the property of the property of the thought of the property of the property of the property of the thought of the property of the property of the property of the thought of the property of the pr Siders it a very rare bird north, and says his description and drawing is taken from a specimen infleate's museum, sent from Georgia. He calls it Gallinita porphyris. Jourdan describes it under the name of Torphyrio Martinica, Temmicks name, etc., and only allows of one species being in the United States. only allows of our species being in the finite states. This, too, has seven generic names, and different specific names also. Prof. Baird says it is accidental in the Middle and Northern United States, and that "It is occasionally met with as far North as New Jersey, and more rarely in New York and Massachusetts," page 753, Birds of the United States, S. F.

Baird, et. al., Vol. IX., Government R. R. Publica-tion, 1858. We have a mounted specimen of this bird in our collection, no doubt from the old museum of Judge Libhart, of Marietta.

The committee on book cases reported by calling attention to the improved condition of the room, and the shelving in the upper store room, not fully com-pleted. The committee was continued.

Much interesting scientific goesp was indulged in. Rev. Frof. Dubbs, and Drs. Davis and Baker, each had something to say, and the time passed with pleasure and profit to the few who met to enjoy it. Why are there not more to take an interest?

AGRICULTURE.

Plowing in Crops as Manure.

A large number of farmera are unable to under-atand how it is possible to better the condition of inable by lowing in clover, rey, bucks heat, etc., in a green condition. The difficulty is in somprehend-ing methods by which crops that are supposed to draw their sustemance from the soil in which they grow can return anything more to the soil than they grow can return auyoning more to the soft man they took away in thele growth. The point is cleared up when it is known that all plants draw nourishment from the admosphere as well as from the soft, and this is one source of gain. While the leaves are accumulating stores of fertility from the alr the roots are busy searching for it in the soil, and thus the two distinct parts of plants work together. It is probable the other parts of panes work together. It is proughted that crops absorb in some way ultrogen from the atmosphere; at least it has never been satisfactorily proved that they do not, and hence from that source one of the most valuable of the various forms of plant food may be derived. If this point is in doubt it is certain that the leaves gather from the atmosphere of the point phere the elements of organic matter, 'and organize them so as to form the great body of the plant; and when we turn under the clover it leaves its organic matter in the soil, and this is, in an important sense,

But the excellent effects of plowing under clover But the excellent effects of plowing under clover or other green crops are not due alone to elements of fertility obtained from air. The great, deep-penetrat-ing roots go to a point lower than most of the cereals, and hence they draw supplies of mineral food from sources inaccessible to other valuable plants; and, sources inaccessible to other vanuous panus; anu, further, it is be cobserved that these roots of coarse texture disintegras and loosen the soll, so that air is let in, and in some sense the work of the plow is performed by them. When these roots decay they form a considerable portion of organic or vegetable matter, which, combined with the mineral, gives a

matter, which, combined with the mineral, given a good compost for better plants to thrive in.

From these brief considerations it will readily be seen how it is possible to manure land by plowing in green crops; and we will here remark, that it is a practice not often cnough followed by our husbandmen. The clover is perhaps the best of all plants for green manuring, and it is easily and cheaply raised, green manuring, and it is easily and cheaply raised. A thin dressing of superphosphate (home-made) will almost give a heavy crop of clover on common land, and this crop turned under, when at its maturity, and allowed to decay, brings it into good tilth, and certainly alfords to the farmer a whe margin for profit in successive crops.—Journal of Chemistrae.

Farming on a Large Scale. The largest cultivated wheat farm on the globe is said to be the Groudin farm, not far from the town to be the Groudin farm, not far from the town to the control of the Red river. Divided into four parts, it has dwellings, granniers, machine shops, clevators, stables for 200 horses, and room for storing 1,600,000 bushels of 200 horses, and room for storing 1,600,000 bushels of grath. Besides the wheat farm there is a stock farm of 20,000 acres. In seeding time 70 to 80 men are camployed, and during harvest 250 to 800 men. Seed-employed, and during harvest around the field, some four rods apart. Cutting begins about August 8th, and ends the fore part of September, succeeded by the thrashing with eight steam thrashers. After thrashing the stubble ground is pleuded with great plows drawn by three horses and cutting two far-ending to freeze, usually about November 1st. There are many other large farms in the territory and in the neighborhood, and they are tilled In much the same manner as the Groudin. The surface of the land generally is aimost level and the soil 1rch and The largest cultivated wheat farm on the globe is same manner as the Ground. The surface of the land generally is almost level and the soil rich and black. The product of one field of 2,315 acres is 57,285 bushels—elevator weight—some twenty-five bushels to the acre. The average yield of the Dakota wheat farm is from 20 to 25 bushels per acre, and the concurrent testimony is, that it is unequaled as a wheat region in the world.

The First Employment of Guano,

In an interesting paper on this subject which has recently appeared from the pen of Prof. Kohl, the author takes occasion to point out the fact that the employment of guano in agricultural operations is