The Nebraska Farmer January 1877

"Galloway Cattle" and "Laws of Breeding"

Courtesy Nebraska State Historical Society







THE NEBRASKA FARMER.

10

year, and the same orchard bids fair at this writing to produce fully as good a crop next year as it has this, and so well pleased is he at the result, Mr. S. informs me he will plant out ten thousand more trees next spring. Mr. Shepherd's orchard is but one in a thousand in this county that has given such satisfactory results.

He further says that all the cost he has been to in harvesting his fruit would not amount to as much as that of cultivating and cribbing eighty

Farmers need not give their entire attention to orcharding, but they should plant a few acres to fruit and some timber also. It will cost but a trifle to do so, and in a few years every family can have all the fruits they want themselves and some to spare. The work of gathering and storing the fruits does not in the least conflict with other farm labor, and the pruning and trimming of the orchard can be done in winter when other work is not pressing. More anon.

J. H. PEARMAN.

Nebraska City, Neb., Dec. 1st, 1876.

Galloway Cattle.

Many visitors at the State Fair last fall had their attention called to three jet-black, hornless. cattle, exhibited by the Agricultural College.

A few words about the Galloway breed of cattle in general, and those belonging to the college in particular, may be interesting to many.

Galloway cattle originated in a section of country known by that name in the south-west of Scotland, where for many years it has been carefully preserved in its purity.

At one time these cattle were highly prized as milking stock, but of late years they have been principally bred for beef.

A London paper, of a late date, quotes Galloway beef at two pence a pound higher than any other kind.

They are easy cattle to fatten and come to maturity early. In size, though not the largest, they are above the medium. A Galloway bull, bred by John Snell, of Edmonton, Canada, weighed, alive, at two years and five months, 1,830 pounds. Over 20,000 head of Galloways are exported from Scotland to England every year. These will dress, at three years, 630 pounds; those sent to London, dress 770 to 840 pounds. These weights are for meat alone.

But few of these cattle have been bred in the United States, and there are none in Nebraska but those belonging to the Agricultural College.

Two animals of this breed were brought from Michigan to the college farm in January, 1875. At this date the bull was 18 months old and weighed 513 pounds; January 7, 1876, he weighed 1,030 pounds; and August 22, 1876, 1,285 pounds.

The heifer was 19 months old January 7, 1875, and weighed 815 pounds. She dropped a calf November 5, 1875, and weighed January 10, 1876, 955 pounds; and August 22, 1876, she weighed 1,025 pounds. This heifer dropped another calf November 28, 1876. The calf dropped November, 1875, weighed January 10, 1876, 165 pounds; on August 22, it weighed 665 pounds, being a gain of exactly 500 pounds in 224 days.

Mr. H. Culbertson, Superintendent of the college farm, from whom these figures have been obtained, informs us that these cattle have not been heavily grain fed, but, during the grazing season, received nothing but grass.

Those now on the college farm are good specimens of the breed in all respects, and are descended from some of the best ever imported into America. The experience of two years seems to show that they are peculiarly adapted to this climate. Their thick, mossy coat of hair, affords them more protection in the winter than the thinner hair of other breeds; and they are consequently hardier and stand extremes of cold better than others.

This mossy close texture of the hair, also, to a great extent, protects them from the annoyance of flies in the summer. During the time when flies were worst last summer, and all the other cattle half distracted by them, the Galloways were grazing with as much unconcern as though there was not a fly in existence.

Of course experience with these cattle has been too short in time, and too limited in extent, to justify a decided opinion on the question of their adaptation to this climate, but the indications are most favorable, and strongly suggest the propriety and desirableness of more extended experiments.

S. R. T.

A Straw.

On the college farm, corn on fall plowed land, yielded fully ten bushels per acre more than that on spring plowed land of same quality. How does this tally with the experience of others?

Stick to the Farm.

The dull times of the last few years have discouraged many farmers, and induced them to seek other employments. A good many are trying to sell their farms with the design of putting their capital in some mercantile business. Let all such remember, that of all who have done this heretofore, not one in twenty has been permanently successful, and that a large majority have utterly failed and lost everything. Farming as a rule, is a slow way of making money, but it is much more certain than mercantile business. Of 1,112 bankrupts in Massachusetts, last year, only fourteen were farmers; and in New York of 2,550 bankrupts, but forty-six were farmers, though farmers constitute full half the population.

It is needless to attempt to cover up the fact that farming is not, as a rule, remunerative, either east or west. The prairie region is no worse than the eastern states in this regard. According to the report of the New Hampshire Board of Agriculture, there are in that State over 2,000 deserted farms so completely worn out and impoverished, that no one can be found to work them for the crop. The immediate gains in mercantile pursuits seem large in comparison with those of farming, but when we consider the risk all who buy and sell must continually take, it would seem the dictate of wise forethought to stick to the farm. S. R. T.

Sheep-Raising.

In regard to my experience with sheep, I have found more clear money in them than in any

Courtesy Nebraska State Historical Society







VOL. I.

by a compress over the false nostrils, and strapped either to the bit or around the lower jaw.

But in examining horses be careful to remove all impediments to the free access of air.— Chicago Field.

Laws of Breeding.

PROF. JAMES LAW.

In the human family, character is the result of action, surrounding influences directly affecting the mind and manner, and becoming a part of the person so surrounded. According to Prof. Huxley, "An idea, or mental impression, passing to the brain, produces a change in the molecular particles of the brain substances. The way thus being broken, subsequent impressions of the same kind are more easily transmitted." There is an economy shown in nature, by which faculties not brought into use-that is, not developedin time become extinct. Fish in the Mammoth Cave have no eyes. Dr. Joseph Thomas, speaking of Egypt, says: "Of all the trades pursued in this country, the most remarkable is hatching of eggs by the artificial heat of ovens, a peculiarity of Egypt handed down from ancient times. The poultry reared in this way are wholly without the instincts which relate to the care of offspring; the artificial method of hatching, therefore, when once resorted to, soon becomes necessary, and the natural system of incubation is totally superseded."

In an address before the Massachusetts Board of Agriculture, Prof. James Law, of Cornell University, set forth the following important principles for breeding animals:

- A perfect development, and sound, vigorous health, constitutionally, especially in the generative organs, are conditions of fertility.
- 2. In the maintenance and improvement of a breed, the fruth that "like produces like," that the reproductive germ will stamp upon the animal developed from it the characters of the parent organism, is the backbone of success.
- 3. We can, in a great degree, at will, produce variations and improvements in breeds, as, by abundant feeding, a mild and salubrious climate, a rich and healthy soil, moderate use, education, stimulation, or selection of desirable qualities; by disease or rejection of undesirable characters and properties; by soliciting the weight of imagination in our favor; by allowing the breeding animals to mix only with those of the stamp desired; by crossing less improved breeds systematically with males of a better race; and by crossing animals faulty or deficient in some particular point with others in which this point is developed in excess.
- 4. The herding of pregnant high-class animals with low-bred ones, and the resulting attachments between the two races, are to be especially avoided as occasionally affecting the progeny injuriously; strong impressions from a new or unusual condition of surrounding objects are to be equally guarded against.
- 5. If a valuable female is allowed to breed to an inferior male, she cannot be relied upon to produce pure-bred animals for several succeeding pregnancies. Through a strong and retained impression, through the absorption into the sys-

No. 1.

tem of living particles (germinal matter) from the fœtus, or through some influence during pregnancy on the ova, then being most actively developed, the good or bad features of the first sire are perpetuated in the progeny of succeeding

- 6. All breeds show a tendency to "breed back," or to produce offspring bearing the marks of their less improved and comparatively valueless ancestors; hence, individuals of this kind must be rejected from the best breeds, if we would maintain their excellence.
- 7. Certain races and individuals have their characters more fixed, and will transmit and perpetuate them in greater proportion than others with which they may be crossed. If their qualities are desirable, they prove highly valuable in raising other stock of greater excellence; if undesirable, they will depreciate the value of any stock crossed for many generations. That fixity of type, however, is above all a characteristic of those which have been carefully selected and bred up to a certain standard for many generations, so that in our best, longest established, and most esteemed breeds, we have a most valuable legacy left us by the successful breeders of the past, with which we may mould our inferior races almost at will.
- 8. While breeding continuously from the nearest relations tends to a weakened constitution, and the aggravation of any taint in the blood to sterility, these may be avoided by infusing, at intervals, fresh blood of the same family, which has been bred apart from this branch of it for several generations. Moreover, the highest excellence is sometimes attained only by breeding very close for a time.
- 9. Diseased or mutilated animals are generally to be discarded from breeding. Mutilations resulting from disease, existing during pregnancy, and disease with a constitutional morbid taint, are above all others, the most injurious to good breeding.
- 10. There is some foundation for the opinion that the sire tends to contribute more to the locomotion and the external organs; so that if we cannot obtain the greatest excellence in both, we should at least seek to have each unexceptionable in the parts and qualities attributed to it.

The Grasses of Wyoming.

TO THE EDITOR OF THE JOURNAL:

Having been a reader of the Journal for some time, I have noticed several articles on stock raising and the grasses of the Rocky Mountain ranges. I would ask you for a corner in your valuable Journal to speak my mind in regard to Wyoming as a sheep and wool-growing country, and I would like to state here that I can not agree with the parties whom "T. C. J." speaks of in an article in a former number of the Journal, in regard to the grasses of the western territories.

Now I have lived in this territory for the past four years, and so far have failed to find any place where the grass has been stamped out, except near some large corral, and that where there was sage brush growing. There was something said, some time ago, about the grass being all stamped out on a range used for sheep by Messrs. Homer & Sargent, who have located on the Laramie Plains, near the hills. I have been

Courtesy Nebraska State Historical Society









TRANSCRIPT The Nebraska Farmer

(Page 10, column 1)

... year, and the same orchard bids fair at this writing to produce fully as good a crop next year as it has this, and so well pleased is he at the result, Mr. S. informs me he will plant our ten thousand more trees next spring. Mr. Shepherd's orchard is but one in a thousand in this county that has given such satisfactory results.

He further says that all the cost he has been to in harvesting his fruit would not amount to as much as that of cultivating and cribbing eighty acres of corn.

Farmers need not give their entire attention to orcharding, but they should plant a few acres to fruit and some timber also. It will cost but a trifle to do so, and in a few years every family can have all the fruits they want themselves and some to spare. The wok of gathering and storing the fruit does not in the least conflict with other farm labor, and the planning and trimming of the orchard can be done in winter when other work is not pressing. More anon.

J. H. Pearman.

Many visitors at the State Fair last fall had their attention called to three jet-black, hornless cattle, exhibited by the Agricultural College.

A few words about the Galloway breed of cattle in general, and those belonging to the college in particular, may be interesting to many.

Galloway cattle originated in a section of country known by that name in the south-west of Scotland, where for many years it has been carefully preserved in its purity.

At one time these cattle were highly prized as milking stock, but of late years they have been principally bred for beef.

A London paper, of late date, quotes Galloway beef at two pence a pound higher than any other kind.

They are easy cattle to fatten and come to maturity early. In size, though not the largest, they are above the medium. A Galloway bull, bred by John Snell, of Edmonton, Canada, weighed, alive, at two years and five months, 1,830 pounds. Over 20,000 head of Galloways are exported from Scotland to England every year. These will dress, at three years, 630 pounds; those sent to London, dress 770 to 840 pounds. These weights are for meat alone.

But few of these cattle have been bred in the United States, and there are none in Nebraska but those belonging to the Agriculture College.

Two animals of this breed were brought from Michigan to the college farm in January, 1875. At this date the bull was 18 months old and weighed 513 pounds; January 7, 1876, he weighed 1,030 pounds; and August 22, 1876, 1,285 pounds.

The heifer was 19 months old January 7, 1875, and weighed 815 pounds. She dropped a calf November 5, 1875, and weighed January 10, 1876, 955 pounds; and August 22, 1876, she weighed 1,025 pounds. This heifer dropped another calf November 28, 1876. The calf dropped November, 1875, weighed January 10, 1876, 165 pounds; on August 22, it weighed 665 pounds, being a gain of exactly 500 pounds in 224 days.

Mr. H. Culbertson, Superintendent of the college farm, from whom these figures have been . . .

(Page 10, column 2)

. . . obtained, informs us that these cattle have not been heavily grain fed, but, during the grazing season, received nothing but grass.







S.R.T.

S.R.T.



Those now on the college farm are good specimens of the breed in all respects, and are descended from some of the best ever imported into America. The experience of two years seems to show that they are peculiarly adapted to this climate. Their thick, mossy coat of hair, affords them more protection in the winter than the thinner hair of other breeds; and they are consequently hardier and stand extremes of cold better than others.

This mossy close texture of the hair, also, to a great extent, protects them from the annoyance of flies in the summer. During the time when flies were worst last summer, and all the other cattle half distracted by them, the Galloways were grazing with as much unconcern as though there was not a fly in existence.

Of course experience with these cattle has been too short in time, and too limited in extent, to justify a decided opinion on the question of their adaptation to this climate, but the indications are most favorable, and strongly suggest the propriety and desirableness of more extended experiments.

A Straw.

On the college farm, corn on fall plowed land, yielded fully ten bushels per acre more than that on spring plowed land of same quality. How does this tally with the experience of others?

Stick to the Farm.

The dull times of the last few years have discouraged many farmers, and induced them to seek other employments. A good many are trying to sell their farms with the design of putting their capital in some mercantile business. Let all such remember, that of all who have done this heretofore, not one in twenty has been permanently successful, and that a large majority have utterly failed and lost everything. Farming as a rule, is a slow way of making money, but it is much more certain than mercantile business. Of 1,112 bankrupts in Massachusetts, last year, only fourteen were farmers; and in New York of 2,550 bankrupts, but forty-six were farmers, though farmers constitute full half the population.

It is needless to attempt to cover up the fact that farming is not, as a rule, remunerative, either east or west. The prairie region is no worse than the eastern states in this regard. According to the report of the New Hampshire Board of Agriculture, there are in the State over 2,000 deserted farms so completely worn out and impoverished, that no one can be found to work them for the crop. The immediate gains in mercantile pursuits seem large in comparison with those of farming, but when we consider the risk all who buy and sell must continually take, it would seem the dictate of wise forethought to stick to the farm.

Sheep-Raising

In regard to my experience with sheep, I have found more clear money in them than in any. . .

(Vol. I, No. I. Left side)

... by a compress over the false nostrils, and strapped either to the bit or around the lower jaw.

But in examining horses be careful to remove all impediments to the free access of air. - *Chicago Field*.

Laws of Breeding Prof. James Law.

In the human family, character is the result of action, surrounding influences directly affecting the mind and manner, and becoming a part of the person so surrounded. According to Prof. Huxley, "An idea, or mental impression, passing to the brain, produces a change in the molecular particles of the brain substances. The way thus being broken, subsequent impressions of the same kind are more easily transmitted." There is an economy shown in nature, by which faculties not brought into use – that is, not developed – in time become







nebraskastudies.org

extinct. Fish in the Mammoth Cave have no eyes. Dr. Joseph Thomas, speaking of Egypt, says: "Of all the trades pursued in this country, the most remarkable is hatching of eggs by the artificial heat of ovens, a peculiarity of Egypt handed down from ancient times. The poultry reared in this way are wholly without the instincts which relate to the care of offspring; the artificial method of hatching, therefore, when once resorted to, soon becomes necessary, and the natural system of incubation is totally suspended."

In an address before the Massachusetts Board of Agriculture, Prof. James Law, of Cornell University, set forth the following important principles for breeding animals:

- 1. A perfect development, and sound, vigorous health, constitutionally, especially in the generative organs, are conditions of fertility.
- 2. In the maintenance and improvement of a breed, the truth that "like produces like," that the reproductive germ will stamp upon the animal development from it the characters of the parent organism, is the backbone of success.
- 3. We can, in a great degree, at will, produce variations and improvements in breeds, as by abundant feeding, a mild and salubrious climate, a rich and healthy soil, moderate use, education, stimulation, or selection of desirable qualities; by disease or rejection of undesirable characters and properties; by soliciting the weight of imagination in our favor; by allowing the breeding animals to mix only with those of the stamp desired; by crossing less important breeds systematically with males of a better race; and by crossing animals faulty or deficient in some particular point with others in which this point is developed in excess.
- 4. The herding or pregnant high-class animals with low-bred ones, and the resulting attachments between two races, are to be especially avoided as occasionally affecting the progeny injuriously; strong impressions from a new or unusual condition of surrounding objects are to be equally guarded against.
- 5. If a valuable female is allowed to breed to an inferior male, she cannot be relied upon to produce pure-bred animals for several succeeding pregnancies. Through a strong and retained impression, through the absorption into the sys- . . .

(Vol. I, No. I. Left side)

- ...-tem of living particles (germinal matter) from the fœtus, or through some influence during pregnancy on the ova, then being most actively developed, the good or bad features of the first sire are perpetuated in the progeny of succeeding ones.
- 6. All breeds shoe a tendency to "breed back," or to produce offspring bearing the marks of their less improved and comparatively valueless ancestors; hence, individuals of this kind must be rejected from the best breeds, if we would maintain their excellence.
- 7. Certain races and individuals have their characters more flexed, and will transmit and perpetuate them in greater proportion than others with which they may be crossed. If their qualities are desirable, they prove highly valuable in raising other stock of greater excellence; if undesirable, they will depreciate the value of any stock crossed for many generations. That fixity of type, however, is above all a characteristic of those which have been carefully selected and bred up to a certain standard for many generations, so that in







nebraskastudies.org

our best, longest established, and most esteemed breeds, we have a most valuable legacy left us by the successful breeders of the past, with which we may mould [sic] out inferior races almost at will.

- 8. While breeding continuously from the nearest relations tends to a weakened constitution, and the aggravation of any taint in the blood to sterility, these may be avoided by infusing, at intervals, fresh blood of the same family, which has been bred apart from this branch of it for several generations. Moreover, the highest excellence is sometimes attained only by breeding very close for a time.
- 9. Diseased or mutilated animals are generally to be discarded from breeding. Mutilations resulting from disease, existing during pregnancy, and disease with a constitutional morbid taint, are above all others, the most injurious to good breeding.
- 10. There is some foundation for the opinion that the sire tends to contribute more to the locomotion and the external organs; so that if we cannot obtain the greatest excellence in both, we should at least seek to have each unexceptionable in the parts and qualities attributed to it.

The Grasses of Wyoming.

TO THE EDITOR OF THE JOURNAL:

Having been a reader of the *Journal* for some time, I have noticed several articles on stock raising and the grasses of the Rocky Mountain ranges. I would ask you for a corner in your valuable *Journal* to speak my mind in regard to Wyoming as a sheep and wool-growing country, and I would like to state here that I can not agree with the parties whom "T. C. J." speaks of in an article in a former number of the *Journal*, in regard to the grasses of the western territories.

Now I have lived in this territory for the past four years, and so far have failed to find any place where the grass has been stamped out, except near some large corral, and that where there was sage brush growing. There was something said, some time ago, about the grass being all stamped out on a range used for sheep by Messrs, Homer & Sargent, who have located on the Laramie Plains, near the hills. I have been. . .

(End of page. No additional pages available.)





