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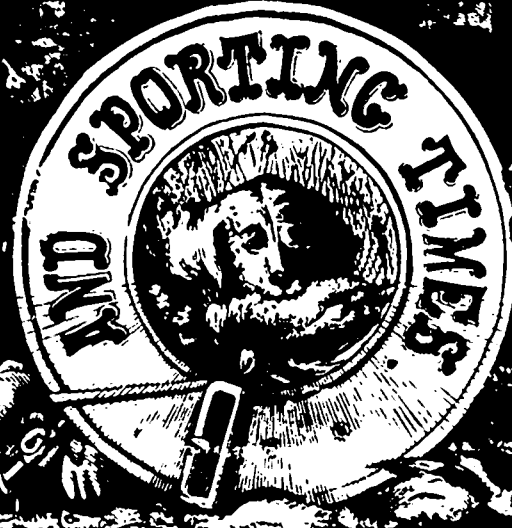
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# GENTLEMAN'S CANADIAN JOURNAL



VOL. VI

TORONTO, ONT. FRIDAY, JAN. 11, 1878.

NO. 333

## TROTTING TRAINER'S EXPERIENCE WITH BITS.

Various Bits Described—The Kind of a Bit the Horse Should Use—Valuable Suggestions—Proper Treatment of a Horse's Mouth.

DETROIT, MICH., Dec. 10, 1877.

DEAR SPIRIT: When we are selecting bits for our horses, we should use great caution, and choose none but those that are perfect in their make. The great majority of bits on the market are imperfectly made—consequently, they are unfit to be used on a horse. It matters not what kind of bit we may be going to select, nor what kind of material it may be made, we should see that it has been perfectly made in all its parts. I have known persons who would choose bits because they were cheap. Cheap bits are made of poor material, consequently they are liable to break, and are not safe to use. When a bit is not properly finished, and rough places remain on it, it will chafe and sore the horse's mouth. When the joints in a bit are loose, and not well fitted, the parts of the mouth that they may come in contact with are liable to be forced into them, and injured thereby.

Chain bits are sometimes used on horses, but they are unfit for use unless they are covered with some flexible material to prevent them from cutting the mouth. Rubber is the material most commonly used for covering this kind of bit, and, when it is properly applied, it makes a good covering.

The rubber-coated chain bit works well on many horses. Crane & Co., of Newark, N. J., manufacture the best bit of this kind I ever used. Their bits have a better finish than any bit I have ever seen of this kind. Owing to the flexibility of this kind of bit, it works well on horses that are liable to become injured on the angles of their jaws. In consequence of its flexibility, it adapts itself to the angles of the mouth, whereby it gets a greater bearing than most other kinds of bits, and, consequently, is not so likely to injure any one particular part of the horse's mouth.

The snaffle bit (fashioned after the various patterns now in use) is used, on trotting horses, more than any other kind of bit. The Mace and Dexter patterns are those now generally used, and, when horses are properly fitted with this kind of bit, there are few but will work well with them, unless they have previously acquired bad habits.

The bar bit, when properly formed, is a good bit, and I have found I could not get along without it on some horses. The month pieces of many bar bits now manufactured are perfectly straight, and are of the same thickness throughout their entire length. Owing to this kind of formation, their bearing is limited, and they are likely to cause undue pressure on that part of the month they may come in contact with, which parts are usually the tongue and angles of the lower jaw, owing to their prominence.

My experience has taught me to prefer a bar bit whose month-piece is slightly curved, and

sometimes had a false tongue arranged in it in such a manner as to prevent the horse from carrying his tongue over the bit. This kind of false tongue I have found to work well on some horses, and there is not the danger of injuring the horse's mouth by its use that there is in using a bit that has a false tongue on it, formed out of some metallic substance.

Bits that have false metallic tongues, or bows, arranged on them, will prevent the horse from carrying his tongue over the bit, but the injuries they are liable to produce by cutting the horse's mouth, render them unfit to be used. Carrying the tongue over the bit is a very unnaughty and annoying habit for a horse to have, and one that is very hard to overcome in some horses.

I have been able to overcome this habit in some horses by using a piece of rubber pipe, about three inches long and one inch in diameter; when two bits are used on a horse, both bits may be passed through the pipe, and when the overcheck is held up against the roof of the mouth by means of the check, or other straps, the horse is unable to get his tongue over the bits. When I want to use this kind of rigging on a horse that will not work on an overcheck, I suspend the upper bit by means of a strap attached to the crown-piece of the bridle.

The leather bit, whose month-piece is formed out of leather, works well on some horses, and may be used either on the overcheck or driving reins to good advantage on some horses.

Besides the above named kinds of bits, there are many other different kinds used, too numerous to mention. Most of them are unfit to use on a trotting horse at all, but some of them may answer a good purpose when used on horses that are not wanted for the track.

While there are no general rules that may be laid down to govern a horseman in selecting a bit to suit his horse, there are many circumstances that may be taken into consideration that will aid him much in making a proper selection of a bit. The natural disposition of the horse has much to do in causing him to be steady at any gait. If all the bits that ever were invented since Eve forged the first one, on which Adam was driven out of the garden of Eden, were used on some horses, they would not become steady trotters. The more I see of trotters, the more I am led to believe that the brain of the horse has much to do in making him a steady and reliable trotter. Besides the natural disposition of the horse, there are many other causes that may tend to make a trotting horse unsteady in his gait. One horse may be made unsteady from hitting his elbows, another from hitting his knees, and others from brushing themselves in one of the many places that a trotting horse is liable to brush when speeded.

A horse may become unsteady from soreness of his muscles, from soreness in his feet, or from soreness in any other part of his body or limbs, of which there are many parts that are liable to become sore, from different causes; he may be unsteady from not being able to properly balance himself at the trotting gait. And yet, besides all these causes, he may be caused to be unsteady by having an improper bit used on

clusions.

If I am, I stand open for correction, and hope some one may yet invent a bit that will be less objectionable than any we now have.

I am under many obligations to "Traveller," for his description of Dr. Cole's bit, for I have been anxious to learn of some one who had seen the Doctor's bit.

As "Traveller" tells us, when the Doctor has his bits finished so as to get the glass finish on them he speaks of in his communication, I have no doubt all the boys will soon be rubbing their bits with a brick. Hoping what I have said about bits may benefit some of your readers, I will now bid them good-by, but may, at some future time, tell them more about *toy weights*, and what I have seen done with them.

Yours, S. T. B.

## Aquatic.

### SCHARFF REPLIES TO HANLAN.

Last week it looked as if there was a possibility that Scharff and Hanlan would come readily to terms for a match, but the New York Clipper of Saturday last contained the card given below from the Pittsburger. It will be seen Scharff promises to make a match in the Spring, but in this section that is only looked upon as an easy let down for the denizen of the smoky city, and a meeting between the two is considered very indefinite. It was hardly expected that Scharff would accept the Canadian's challenge, after the style the latter showed in his race with Ross; but as Scharff had some time before expressed a wish to get on with Hanlan the opportunity was offered him. It is understood the \$100 forfeit will remain in Frank Queen's hands until Spring, so as to give Scharff every chance to make his word good.

Pittsburg, Dec. 28, 1877.

SIR: In reply to Mr. Hanlan's challenge, I promise to make a match with him next spring. I don't wish to make a match with him or any other person six or seven months before the race is to come off. Hoping this will satisfy Mr. Hanlan, I am, most respectfully,

Yours, etc., WILLIAM SCHARFF.

P. S.—Thanks to Mr. Hanlan for his photograph.

### THE "TURF, FIELD AND FARM" ON AMERICAN OARSMEN.

It has been definitely settled that Trickett, the Australian oarsman, will meet Courtney on American waters next Summer. Before judging the probabilities of the race we should desire to see Trickett's form, and gather from personal observation

and the tenth in 6:15, making the first thousand in 64 minutes and 44 seconds. The second thousand he shattered in 187 minutes 10 seconds. Then he rested for an hour. He broke his third thousand in 203 minutes and 15 seconds. The Captain now began to show signs of fatigue and he had his right arm frequently rubbed down. His cheek, against which the gun rested, also began to swell. He completed his fourth thousand in 282 minutes and 85 seconds. The audience had gradually increased and by eight o'clock the house was nearly filled. The Captain gained time on each thousand until 10 p. m. His right shoulder was then very badly swollen, his left arm was weak, his eyes were inflamed, his sight seemed to grow dim, and he missed many balls. He fired slower, too. He complained of nausea of the stomach and severe headache. Before the forty-seventh hundred was completed he was obliged to rest. He fired the rest of his shots while seated. He fired pretty steadily toward the closed, but he had to rest three times and take stimulants. The forty-ninth hundred was fired irregularly. His hand was swelling, and his right arm rapidly waking, but his indomitable pluck never failed him, and he hit the balls right and left. When he began on the last hundred his most sanguine friends doubted his ability to succeed. But he rallied, and shot almost as rapidly and as well as at first; and when he shattered the last ball he was 19 minutes and 25 seconds ahead of time. Cheer upon cheer rang through the vast building when the result was announced. The Captain mounted a chair and offered a wager of \$10,000 against \$1,000 that there was no man living who could repeat the feat just accomplished.

Then with his friends he went immediately to his hotel, where he was cared for. His hand and arm had swollen so as to be entirely useless, and the right side of his face was nearly twice the size of the other. He was suffering considerably, and complained of pain in his head, and of a sickness at the stomach. He partook moderately of whisky and water, and in half an hour he was comparatively strong and hearty again.

### SHOOTING AT GUELPH.

A pigeon shoot took place near the Silver Creek Brewery, Guelph, on New Year's Day, between sides captained by Messrs. Geo. Sleeman and J. Turnbull; Sleeman's side winning by five birds, as the following score will show:—

Geo Sleeman.....	1110011110—7
C Root.....	1000010111—4
H Cull.....	1011011010—6
G P... ..	101100010—4

## Base Ball.

### THE CHAMPIONSHIPS.

A meeting of the judicial committee, composed of Messrs. W. Macpherson, C.G. Moorhead, and Jas. T. Nichols, was held on Saturday at the St. Nicholas Hotel, Hamilton, to decide as to which club was entitled to the championship. The clubs represented were the Standards of Hamilton, the Atlantics of London, the Royal Oaks of Bowmanville, and the Maple Leafs of Guelph. After some discussion, the games of the Maple Leaf and Royal Oak were thrown out, and the contest lay between the Standards and Atlantics. The Standards claimed the championship on the ground of having fulfilled the terms of Rules 3 and 4 of the Amateur Association, to the effect:—1. That three games be played with every club entering for the championship. 2. That the Canadian Association of base ball players play under the same rules as the International Association. The decision, given in favor of the Atlantics was based on Article XIII., Section 8, of the International Rules, viz.:—The club who shall have won the greatest number of games in the champion series shall be declared the champion club.

In regard to the professional championship of Canada, the Committee decided that the Maple Leafs of Guelph are the winners, they being the only club that entered for the championship. The following is the record of games played for the amateur championship:—

CLUBS.	Standards.	Atlantics.	Maple Leafs.	Royal Oaks.	Games Lost.
Standards (Hamilton).....	1	2	1	1	
Atlantics (London).....	2	1	1	1	
Maple Leafs (Amateur, Guelph).....	1	1	1	1	
Royal Oaks (Bowmanville).....	2	1	1	1	
Games Lost.....	1	2	4	1	11

### THE DUKE OF HAMILTON'S AMERICAN PURCHASES.

The four colts and fillies purchased last year at Mr. M. H. Sanford's sale of thoroughbred yearlings for account of the Duke of Hamilton, have been named as follows:—

CALEXA-GLEN, for b.c. foaled 1876, by Glenelg, dam La Polka, by Lexington, out of Duke's by Imp Geneva.  
GLEN JORNA, for c.c. foaled 1876, by Glenelg, dam Urica, by Lexington, out of Duke's by Imp Geneva.  
EMILIA (Australian's dam) by Imp Geneva.  
LEON TANTA, for b.c. foaled 1876, by Glenelg, dam Urica, by Lexington, out of Duke's by Imp Geneva.















AMERICAN.

RUNNING MEETINGS.

Charleston, S. C. .... Feb 5 to 9  
St Louis, Mo. .... June 4 to 8

TROTTING

Freeport, Ill. .... May 30 to June 2  
Prophetstown, Ill. .... June 4 to 7  
Milwaukee, Wis. .... June 4 to 7  
Grand Rapids, Mich. .... June 18 to 21  
Detroit, Mich. .... July 2 to 7  
Clyde, N. Y. .... July 3 to 5  
Warren, Ohio .... July 3 to 5  
Toledo, O. .... July 16 to 19  
Cleveland, O. .... July 23 to 25  
Buffalo, N. Y. .... July 30 to Aug 2  
Freeport, Ill. .... Aug 1 to 4  
Rochester, N. Y. .... Aug 6 to 9  
Prophetstown, Ill. .... Aug 6 to 9  
Utica, N. Y. .... Aug 13 to 16  
Springfield, Mass. .... Aug 20 to 23  
Earlville, Ill. .... Aug 20 to 23  
Mystic Park, Boston .... Sept 3 to 6

NEWSPAPER DECISIONS.

1. Any person or persons who takes a paper regularly from a Post Office, whether directed in his name or another's, or whether he has subscribed or not, is responsible for payment.

2. If a person orders his paper discontinued, he must pay all arrears, or the publisher may continue to send it until payment is made, and then collect the whole amount, whether the paper is taken from the office or not.

3. The Courts have decided, that refusing to take newspapers or periodicals from the Post Office, or removing and leaving them uncalled for, is *prima facie* evidence of intentional fraud.

A WORD FOR OURSELVES.

[From the Sporting Times, Dec. 14th, '77.]

The third year of our proprietorship of the SPORTING TIMES is drawing to a close. During the time it has been under our management it has been a regular, and we hope acceptable, visitor to the reader. It has been our practise to issue drafts in September on those who were in default with their subscriptions; but this year, instead, made a call through the columns of the paper requesting all who were indebted to remit the amounts due. With regret, we are obliged to acknowledge the appeal was not responded to with that alacrity which we anticipated would be shown. During this and next week we will issue drafts upon all of our subscribers who are in arrears for subscriptions, that can be reached through Express offices, and we expect they will be promptly paid. There are thousands of dollars due us, and the want of this money seriously impedes our efforts to bring the paper up to our ideal.

the fact of that trotting being the "ringer" question. It would not be asking too much that owners should furnish evidence of the identity and eligibility of their nominations; and even if some doubtful one should get the worst of it, the larger interest would be protected. Another matter which has been frequently overlooked before, has been the timely announcement of dates selected for our ice races. Too much publicity can hardly be given. The SPORTING TIMES is the official organ of communication between horsemen and associations in this country, and a notice in its columns will reach all parts of the country. We are aware the financial resources of ice gatherings as a usual thing are not too plethoric, and therefore would counsel no ostentatious displays. Where an association does not feel warranted in publishing their programme, an intimation conveying the dates and amount of purses would answer a good purpose; but at all events, notice should be sent us of the dates and they will be placed under our "Dates Claimed" heading, gratis, for the good of the cause. We will do our best for all the winter associations, and only ask them in return to do their best for us.

SINGLE SCULLS.

Notwithstanding the talk about the Trickett-Courtney match, there is a suspicion of uncertainty about the affair which is difficult to understand. Mr. Punch, the manager of Trickett in Australia, writes the London Sportsman, to the effect that it is not Trickett's intention to leave the colony again until such time as some one from abroad appears there to wrest his laurels from him. Further, up to this week, the New York Clipper, who was mentioned on behalf of Trickett as stakeholder, has had no word from that individual. Putting Mr. Punch's letter, and the circumstance of no direct information at the Clipper office together, they would go a long way to lead the reader to believe that Trickett may be innocent of the *furor* he is creating on the American Continent. A few weeks, maybe days, will probably set the matter at rest one way or the other. Now, the New York papers are clamoring to have the race take place near that city, but Courtney decidedly objects to it, and claims that it will take place at Owasco Lake, his experience in his match with Riley not giving him much love for the neighborhood of Gotham.

On Tuesday Mr. Ed. Hanlan received a telegraph from Boston conveying the information that the disability imposed upon him for his action in the 4th of July regatta in that city last year had been removed. The penalty imposed on Hanlan was to the effect that he be debarred from the right of participating in any future contests under the auspices of the city government. The vote to remove the disability stood five to one in our champion's favor. At the time of the regatta there was a strong feeling against the Canadian, and with a personal spite against him, his enemies had the brand affixed without giving him an opportunity of making a defence. Shortly afterwards Hanlan addressed a communication to the Boston Herald, containing an explanation of his conduct, which was at

Sporting Gossip.

The trotting mare Tempest will be disposed of at Frank Martin's Turf Club House, on Tuesday evening next. See advertisement. Mr. Geo. Winks, of Montreal, the owner of probably the fastest trotting team in Canada, telegraphs from England that his firm is not insolvent, and that his credit has been hurt by the false reports.

There was one call made on New-Year's day, which created quite a stir in a certain circle. It was made by a man who learned for the first time, the old, old story, that three of a kind are better than two pair.

Mr. W. O. McKay, secretary of the Dominion Driving Park, Ottawa, contributed \$20 worth of bread tickets towards the city poor, and placed them in the hands of the city police for distribution.

It is proposed to present the skeleton of Flora Temple to the Smithsonian Institute for preservation. The skeleton of the mighty Lexington is already there.

A correspondent informs us that the grey gelding Detective, mentioned in our Leslieville communication last week, is not by Godfrey's Patchen as stated therein, but by Edwin Forrest, a son of Kentucky Hunter.

The firm of which Mr. P. Lorillard, the owner of Parole, is the senior member, paid to the United States Government in 1877, as a revenue tax on manufactured tobacco, the enormous sum of \$4,000,000.

Mr. Daniel Campen, of Detroit, has purchased the chestnut mare Utica, from M. Leach of Pontiac, Mich. It is said she can beat 2:40 handily enough.

Mr. Billy Hawthorne, formerly of Strong's Hotel, London, has gone into business at Cleveland, Ohio.

A good New-year's resolution—To take the SPORTING TIMES, and pay for it in advance.

In the Hamilton municipal elections Mr. J. J. Mason, the expert rifle shootist, headed the poll in No. 3 Ward, as Alderman; Mr. Rod. Ashbaugh was defeated in No. 7 Ward, by 18 votes.

Gov. Sprague, the western trotter, it is said will certainly appear upon the turf next season.

Capt. John Demass, of Detroit, is about purchasing the trotter Dick Harvey, with a record of 2:37. He is owned in Sandusky, Ohio.

The New York Sportsman says:—Now, in regard to betting and pool-selling on race-courses, there is no question of morals involved. It is just as moral to buy a pool on a race-course as it is to lay a bet with a book-maker. It is just as moral for the man who is not able to own running or trotting horses to lay a bet upon their prowess as it is for the owners to subscribe to sweepstakes and pay entrance money to purses. And it is just as moral for owners to do the latter as it is for people to buy or sell stocks, gold, wheat, or other commodities for speculative account. The whole question is one of expediency and policy, and he who believes that morality is involved is a hopeless blockhead.

A demand has sprung up in Michigan for fine saddle horses. During the past few

years, plenty of bone and a splendid stifle—in all, he is one of the strongest built horses I ever seen. He is the same colt that trotted a full mile at Bell Ewart ice races last winter, in three-year-old form, with comparatively no training whatever, in 2:42. Since then he has never had a harness on until he was delivered to Mr. Bingham, and he says he drove him a quarter of a mile the first time harness had been him for nine months as fast as his bay horse Venture could trot. He was sired by Wilson's Whirlwind, and his dam is a fast pacing mare brought from Lower Canada by Mr. Bowman.

As yesterday was New Year's day, I took notice of some of the horse flesh owners here. Will. R. Bingham was out behind Will. R., and I think any one that will give him the go-by this winter will have to beat 35.

Dr. Morton's driving Day about, a chestnut, sired by Extra; and his gray mare Plover, both looking well.

Jas. Boddy is working a very handsome four-year-old, which he calls Bay Eagle sired by Grey Eagle, a good mover but a bad actor in company; but Jimmy thinks before warm weather comes he will be up in front some place.

W. W. Ellis is roading the milk-white stallion Harry Clark, said to be of Messenger blood; very handsome. He intends taking him to Chicago in the spring.

Next comes John Boddy, Jr., behind the bay mare Pauc, looking as fine as silk, and when John says "look out I am after you," it takes quite a trotter to keep out of his way.

Low Algeo, our livery man, is driving a very handsome pair of clipped bays, stylish enough for Allie Bonner to sit behind.

Sidd Durham will drive Dominion Chief, sired by Extra, this winter; and as Sidd is a young man of few words all the fast ones want to look out for him.

Henry Grum is driving his black mare, Lucy, and when the old man whirles her, and says, "take care," something has got to come sure. More again.—Foot Hook.

FROM PRESCOTT.

To the Editor of the Sporting Times:

Things have been rather active at Rysdyk Stock Farm. To-day (Jan. 8) Mr. Wiser sold to Mr. C. R. Bill, of Bill Town, N. S., the four-year-old bay stallion Hartford, and the four-year-old bay filly Barbara Patchen for \$2,000. Hartford is a beautiful bay, foaled 1874, by Rysdyk, son of Rysdyk's Hambletonian, dam Belle by Rysdyk's Hambletonian; 2nd dam Rhoda, by Amos' Cassius M. Clay, Jr. He was bred by Mr. C. M. Pond, of Hartford, Conn., and was foaled the property of Mr. Wiser. He is a colt of large frame, with great bone and powerful quarters, and massive and projecting stiles. His markings are two white hind, and one white forward foot, and he is very intelligent and docile. Hartford has never been trained at all, but can show a three-minute gait easy, and with a little handling this winter will get away with 2:50 or better sure.

Barbara Patchen is a right sharp one. She

FROM INGERSOLL.

To the Editor of Sporting Times:

Sir,—At last we are having a good fall of snow, and the faces of the horsemen brighten accordingly, as it gives them a chance to exercise their fast ones.

Mr. E. Caswell, the cheese buyer, has sold his Kentucky Stallion by Mambrino Clark, to Messrs. Paterson, Jarvis & Choate. The price paid was \$205, which seems to me to be a small price for so well bred a youngster.

Mr. Edgar Elliott, of Dereham, has sold his colt, Frank Wildboy, by Poole's Royal George, to Mr. James Archy, of London. Price \$250. He also bought a splendid span of black mares, the pedigree of which I did not learn.

Mr. Robert Frezell, the well-known cigar maker of this town, was elected as a councillor for the town of Ingersoll last week. If "Bob" is as good at the council board as he is at cigar making, I have no doubt he will acquit himself to everybody's satisfaction.

Dr. Carroll informs me that he has a Capt. Tom colt that is going to be very fast. The Dr. has 12 or 13 colts by the same horse, and if there is anything in faith surely he ought to be rewarded.

Mr. Wm. McMurray intends trotting Capt. Tom and also his mare Maggie Smaller on the ice this winter; that is if we are fortunate enough to have any meetings. The old horse looks as well as ever but is very fast of course for want of exercise.

Mr. Angus McKay's lot look well, but whether he intends to trot either Bay Fearnaught or his Goldust colt this season he has not yet informed me.

Our skating rink is now finished, and it is really a credit to the town, being the largest in Canada. The past weather has been very disheartening to the shareholders, but the prospect looks better now. All we want now is for old King Frost to breathe a few times on the vast sheet of water and then all will go merry as a marriage bell.—TOE WEIGHT.

FROM LOCKPORT.

To the Editor of the Sporting Times:

Sir,—It is some time since I have 'posed' you on sporting matter in this vicinity; firstly on account of other business needing my whole attention, and secondly on account of a scarcity of items. We now have for the first time this winter a bountiful supply of 'beautiful snow,' and our streets are lined from morning until evening with a joyous throng, each one ever ready to prove the merits of his trotter, with a "glang! I'll take nobody's snow." Everybody who can boast of any kind of a nag has been out for an airing. And after the festivities of the day are over they all adjourn to the Conover's to settle the 'pool question.' Some of our principal avenues are as smooth as the Rocky Road to Dublin, and a horse that might prove fatal to a vacant lot. Among the daily concourse there is but one countenance needed to make the pool complete, but that face so familiar to all horsemen will never be seen upon our streets again, I refer to Mr. James ... who has been for a number of years connected with the horse interests of the county.

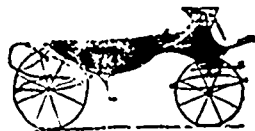








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DR. WM. M. GILES,  
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"SPORTING TIMES,

Toronto, Ont.

HOW TO TELL A HORSE'S AGE

BY PROF. J. A. GOSNO, M.D. V.S. &c.

During our late Western trip, we were struck very forcibly by a remark made by a prominent horseman. The remark alluded to was, when speaking about the trotter generally, he said "No tooth no horse" was as true as fate, but in his opinion it was equally true, "No tooth no horse," and suggested that it would be quite a boon to the readers of the Span if we were to write an essay on dentition, viewing it in its different aspects and from different standpoints. Thus we have concluded to do, as it affords us great pleasure to accede to the requests of our readers, whenever we have an opportunity. There is no doubt that many gentlemen, who are in other respects conversant with horse matters generally, are not by any means so well informed respecting dentition as to what we have been saying. In this way gentlemen are frequently victimized when making purchases, especially those who are in the business of training horses, with dealers who resort to that disputable practice of "bushing." By possessing information on not only the effect age should have on the interdium, or black spots on the teeth, but also on the general appearance which an average horse of a given age should present.

To commence, we would advise our readers not to be satisfied with merely committing the principal points of the following to memory, and relying on it when occasion requires that they should, put their knowledge to a practical test. We strongly recommend them to commence and examine animals of the different ages which will be here mentioned, compare what they see before them with what they expected to find, taking our remarks as a guide. In this way they will indelibly write the matter on the tablets of their memory. Our remarks will be altogether confined to the permanent teeth; we will, therefore, not allude to the temporary unless to mention that, as their names suggest, they are cast at various ages, and this will be unavoidably mentioned as the various ages are considered. It would not be an inappropriate commencement to state what teeth are: They are hard, comparatively small bodies, fixed in the alveoli (sockets) of each jaw, and are used to grind and masticate substances intended for the nutrition of the body, and, of course, the more perfect they are, the better that office will be performed. True teeth are only in the mammalia, reptiles, and fish.

Teeth are, as a rule, of an irregular, conical shape, the base being toward the interior of the mouth, that is, they are set in a slanting direction, the superior portions being placed exterior to the inferior, instead of perpendicularly, as they would appear to a casual observer. The gum is the dividing line, that portion immediately in contact with the upper portion of the gum, and immediately below and above it is called the crown, or neck, the fangs, or roots, being imbedded in the alveoli, or sockets, of the superior and inferior maxillaries, respectively. The incisors are situated in the front of the mouth, and as they are the ones we will have most to say about, we will give a description of them, and afterwards direct especial attention to the changes that take place in them as the animal advances in age.

Teeth are considered to be active agents in mastication. Their mode of development is the same in all our domesticated animals. Those placed together in front, at the middle of the dental arch, are called the incisors, or incisive teeth; those situated behind these (two in the superior, and two in the inferior maxillary) are denominated canine teeth, or tusks, those which occupy the more concealed portions of the mouth are called molars or grinders. A horse has forty teeth, composed of twenty incisors, four tusks, and twenty-four molars, the mare has corresponding teeth, except the tusks, which are, in the female, almost invariably absent, hence she has only thirty-six. All teeth are composed essentially of enamel, dentine, and crusta petrosa. A curious but remarkable fact presents itself respecting the growth of horses' teeth, which is not common to other animals, namely, that the teeth are growing continually from their development to the animal's death. They are forced upward from their sockets to supply the material required daily to be used in mastication.

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—1877—

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ly perpendicular, are now slanting; and this process continues with advancing age. As a horse becomes old the enamel loses its original beautiful whiteness, and assumes a cloudy or smoky yellow instead, and become striated with brown and black marks, and the tusks not infrequently drop.

The operation called "bushing" consists of burning holes in the teeth to stimulate the original but worn cut infundibulum. A practiced eye will not be so deceived, as it looks at the mouth and teeth generally, but if only the marks are taken as guides the inexperienced are very apt to be victimized by purchasing horses which are old, and when the owner expects he is in his prime, he finds he is unable to masticate, and from old age and consequent general breaking down of the system, becomes useless; and therefore we would caution our readers to be very careful about making their examination in this connection, as some people make a dishonorable but lucrative living by "bushing." There are such, even in this model city, that will make you a five or an eight year mouth without additional charge, and without reference to the animal's actual age.

Miscellaneous.

FREAK OF NATURE.—In Guelph there is at present a calf, a few weeks old, whose head and countenance resembles that of a calf, and it is said to testify delight, by clapping its hands, when brought in the neighborhood of cows. It is a most singular freak of nature. The names of the parents are suppressed for obvious reasons.

OFFICERS ELECTED.—The following gentlemen have been elected officers of the Canadian Columbarian Society.—President, W. H. D. Chester; 1st Vice-President, J. B. Johnson; 2nd Vice-President, Jas. Goldin; Guelph; Secretary, W. Lakens; Treasurer, Jas. McGrath; Executive Committee, T. Adams, C. Goodland, W. War, J. McDon-



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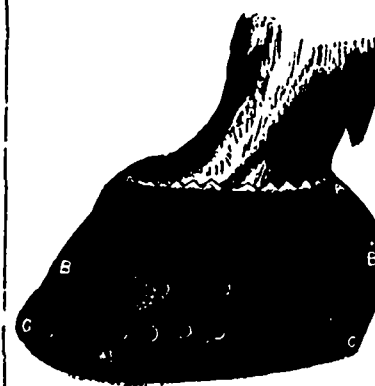
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 animals, namely, that the teeth are growing  
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 animal's death. They are forced upward  
 from their sockets to supply the material re-  
 moved by attrition. Tusks are never shed,  
 they make their appearance between the  
 animal's four and a half and fifth year, hence  
 if they are just protruding we know, without  
 any confirmatory evidence, the horse's age.  
 Lateral at birth, or from one to four days  
 afterward, the colt has four milk teeth called  
 the centrals.

The lateral teeth appear between four and  
 six weeks after birth, the corner teeth about  
 the eighth month. The centrals, or those  
 which first make their appearance, are shed  
 between two and a half and three years; the  
 laterals are shed between three and a half  
 and four years; the corner teeth between  
 four and a half and five. About this time,  
 or a little before the tusks are full grown,  
 the animal is said, in horsemen's phraseology,  
 to have a full mouth. We now come to the  
 important part of the subject, where an ani-  
 mal's age is determined by the appearance  
 of the black spots, or more correctly, the in-  
 fundibulum. The infundibulum, or black  
 marks, are worn out of the superior or smooth  
 surface of the lower jaw at six years old, and  
 that of the lateral are commencing to disap-  
 pear, and is completed at the seventh year;  
 hence at this age we find the wearing surfaces  
 of both central and lateral inferior teeth  
 smooth, the black marks having been worn  
 away by attrition, and the marks of the cor-  
 ner teeth begin to disappear, and has entirely  
 disappeared when the animal becomes eight  
 years old. The horse is now considered  
 a full grown, and no conscientious veterinary sur-  
 geon or horseman would positively assert  
 the animal's age, only approximately. Some  
 people say they can determine the exact age  
 by means other than the teeth, but such in-  
 dications are unobtainable.

As the animal advances in age his teeth  
 gradually grow long, and appear to become  
 more horizontal. The mouth which, at five  
 years old, was cup-shaped, now loses this ap-  
 pearance and becomes elongated. The teeth  
 which were, at the age last mentioned, near-

ly perpendicular, are now slanting; and this  
 process continues with advancing age. As a  
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 Johnson; 2nd Vice-President, Jas. Goldie,  
 Guelph; Secretary, W. Likens; Treasurer,  
 Jas. McGrath; Executive Committee, T.  
 Adams, C. Goodchild, W. War, J. McDon-  
 ald, and D. Davis.

**PEDESTRIANISM.**—Joe Bradley's attempt to  
 walk 7½ miles in the hour at the Star  
 Grounds, Fulham, Eng., on the 17th ult., re-  
 sulted in a bad beating for Father Time, as  
 he was 1m. 7s. in the rear when the pedes-  
 trian finished his task. Had he been allowed  
 to walk full out he would have made the  
 distance a minute or more quicker. His first  
 mile was made in 7m. 29s., three miles were  
 made in 23m. 45s., five miles in 40m. 5s.,  
 and seven miles in 57m.

**DRAUGHTS.**—The principal excitement in  
 Listowell, on Jan. 1, was a contest at  
 draughts, between Mr. McKenzie, of Guelph,  
 and Mr. R. Ferguson, of Listowell. The  
 match was made in consequence of a chal-  
 lenge from Mr. McKenzie to play for the  
 championship of the county. The match,  
 which consisted of ten games, was played in  
 the Mechanics' Institute rooms, and resulted  
 in the defeat of the Wellington champion.  
 The score stood: Ferguson, 5; Mackenzie,  
 2; drawn, 3.

**DR. DON,** the old established Specialist, of  
 300 Michigan St., Buffalo, N. Y., ranks among  
 the most successful physicians of the city. Many  
 years experience has made him an expert in  
 treating all diseases of a virulent, chronic and  
 special nature. Young and middle aged can  
 obtain the most happy relief for diseases of a  
 nervous, exhausting, and weakening character,  
 result of errors and excesses. Consultation by  
 letter or at office, free and confidential; medical  
 books, describing the above diseases, free. Medi-  
 cine sent everywhere. 332-ty

### COCKING.

A few GAME BIRDS for Sale. Pit only.  
 JOHN EDWARDS,  
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## THE CLINTON, ONT., Driving Park Association.

(INCORPORATED BY ACT OF PARLIAMENT)

Claim May 23, & 24 '78

as the days for their Spring Meeting, when they  
 expect to offer in prizes about \$1,500.

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J. A. NELLES,  
 Secy-Treas.

TO BE DISPOSED OF  
 THE  
**TROTting MARE**  
**"TEMPEST"**  
 (RECORD 2:39)

At the Turf Club House, Toronto,

ON TUESDAY, JANUARY 15th, 1878.

200 shares, \$3 each. Gentlemen desiring  
 share address,

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PETER CURRA,  
 SPORTING TIMES, Toronto

**TROTting STALLIONS FOR SALE**

The owner not having time to properly devel-  
 op his span of fast and elegantly bred trotting  
 stallions, will dispose of them very cheap.

**MATT CAMERON**, b h foaled 1872, 15-2, by High-  
 land Boy, he by Hamlet by Volunteer; dam by  
 Toronto Chief; 2nd dam the Goodenough mare,  
 by St. Lawrence; 3rd dam, by Tippe; 4th dam  
 by Tom Kimble. Matt Cameron can show bet-  
 ter than 2:40, and is without record.

**YOUNG ERN CHER**, b h foaled 1871, 15-2, by  
 Ern Chief; dam same as Matt Cameron. Young  
 Ern Chief can trot better than 3:00, has had no  
 handling, and promises to be speedy.

The horses are perfectly sound, kind, and  
 pure gaited; can be driven double or single at  
 top of their speed by a lady; are nicely matched  
 in size, color, and disposition; can speed to  
 pole better than 3:00, and are without vice or  
 fault of any kind. Can be seen at half-mile  
 track, Queen St., West, Toronto.

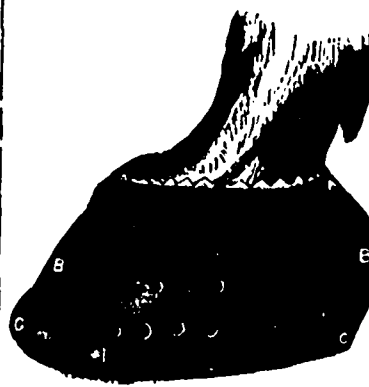
For price address, HORSEMAN, SPORTING  
 TIMES Office, Toronto, Ont. 326-ff

### SPEEDY GELDING FOR SALE.

A gentleman whose business will not permit  
 him the time to properly look after his horse  
 offers him for sale cheap. He is a beautiful bay  
 gelding; by Caledonia Chief, dam a fast pacing  
 mare; four years old, 15:3, kind and sound in  
 every respect, and shows remarkable speed. Any  
 reasonable trial permitted before purchase. Ad-  
 dress KAY, SPORTING TIMES Office, Tor-  
 onto. 327-ff

**Thorough-bred Mare for  
 Sale, Cheap.**

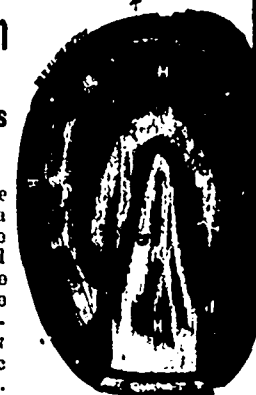
An elegantly Kentucky bred, thorough-bred  
 mare for sale cheap. Seven years old, over 16  
 hands, bay, very fast on the flat or across coun-  
 try, sound, broken to single harness, and can  
 trot close to 3:00. Would make a valuable brood  
 mare. Address for full particulars, SENEX,  
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 CONTRACTION OF  
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 one too that may be  
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IN WOOD AND BOTTLE.

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