BOWLING
HOCKEY
WRESTLING

NEWS OF THE SPORT WORLD

BOXING
BASKETBALL
OTHER SPORT

CRYSTALS TIE UP ISLAND LEAGUE STANDING

Cahill Is Sparkplug Of Crystal Team As Abbies Suffer An 8-5 Setback

Led by a veteran, Summerside Crystals last night raced into a two-game lead in the second section of the Island Hockey League by defeating the Abegweits 8-5 in another, fast high scoring contest.

Charlie Cahill was the veteran. Apparently rolling back the years for the brief space of an hour the former Boston Bruin hockeyist inspired his mates on for two periods that saw the visitors pile up a 6-2 lead and then when the Abegweits rallied their forces in a thrilling third period to draw up to within one goal of their opponents Cahill again took a hand scoring the goal that gave his team back a two goal lead and then placing the outcome beyond the shadow of a doubt by making the play for the final goal of the contest. Almost single handedly he beat the Abbies last night and the summary shows him as having four goals and two assists. Not a bad showing for a player whose hockey years were supposed to be all behind him.

For the first fifteen minutes of the first period Crystals outplayed Abegweits by a wide margin and but for some sensational saves by Stull the locals would have been far behind. But in the last five minutes of the session the Abbie passes started to click and this time it was Casey who filled the breach robbing Abbie attackers three times as they skated in on top of him. Both teams were overanxious around the net and as a result some erratic shooting was witnessed.

But although they had the edge Crystals left the ice dead-locked with their opponents at 1-all. After both goalies had several close calls Charlie Cahill finally broke the scoreless battle. Schurman retrieving the disc at centre raced to the Abbie line. Steele picking up the puck was forced to the corner but Cahill left unmarked in front of the net picked up the passout and gave Stull no chance on a backhand drive.

It took the Abbies three minutes and 21 seconds to get the equalizer. "Chebbie" Acorn broke from his defence position and his pass at the line sent Bradley into the clear and this time the Abbie Winner drilled a drive high into the cards. Before the period ended Stull and Casey both made a sensational save apiece as attackers came right in on top of them.

Stull continued his sensational work in the first minute of the second session robbing Schurman and Gallant in a row. Four minutes after the start Fultie Pound put the Abbies in front for the first time in the game when he raced in alone to the mouth of the net and slammed in his own rebound. The lead was shortlived. Charlie Cahill accounted for his second goal two minutes later taking Howatt's pass on a play that he looked to be inside the crease. Two minutes later the visitors were in front again as Chick Gallant drilled one home from thirty feet out as the Crystals milled inside the Abbie zone.

Cahill went to the cooler for a tripping penalty but the sides were even when Kelly drew one for the Abbies a minute later. Cahill just got back on when he made the play for another goal drilling one in hard with Campbell picking up the rebound. Kelly was still in the box at the time.

Taking command of the play again Crystals scored two goals in 19 seconds at the 15 minute mark to take a 6-2 lead. Cahill started the fireworks again as, stickhandling beautifully, he raced the length of the ice to beat Stull for the third time. Just after the next faceoff Jackie Schurman timed a pass beautifully to Montgomery and Monty angled a drive to the far corner. Before the period had ended Abbies were left shorthanded when Bradley went to the box but Crystals could not score against a stubborn defence.

Casey made a lovely save off Cudmore as the Abbies attempted to force matters but a minute later Pound made the red light glow as he took Stewart's pass well inside to pick the open corner. Abbies were ganging desperately and they made the count 6-4 as "Pud" Whitlock fired home McKinnon's rebound. Montgomery and Cahill broke into the clear but were overtaken before they completed their play.

Carrying the mail the locals made it read 6-5 at the 8-minute mark Johnny Kelly and Archie McFarlane combining with the former denting the twines with a high drive. Steele stood in the breach a minute later robbing Gallant as the "Chicken" shook himself loose. Casey in the Crystal net was being kept busy minutes on end as the Abbies packed every man inside and peppered him with rubber. Stull was being given his busy moments too, but the blonde goalie was unbeatable. But Cahill again proved his nemesis as he stickhandled through the Abbie team to backhand a drive home.

A penalty to Ab McKinnon called a halt to the Abbie offensive and they managed to hang on until the offender returned. It was Cahill again who made the play for another Crystal goal, passing to Howatt over the line for a goal Stull never had a chance on. Whitlock drew a cross-checking penalty in the final seconds and was still in the box as the bell went.

SUMMARY
1st Period

1. Crystals, Cahill (Steele, Schurman) 10.33.
2. Abbies, Bradley (Acorn) 13.54. Penalty—Montgomery.

2nd Period

3. Abbies, Pound, 4.15.
4. Crystals, Cahill (Howatt) 6.53.
5. Crystals, Gallant, 8.55.
6. Crystals, Campbell (Cahill) 13.42.
7. Crystals, Cahill, 15.09.
8. Crystals, Montgomery (Schurman) 15.18.

Penalties — Cahill, Kelly, Bradley.

3rd Period

9. Abbies, Pound (Stewart) 3.15
10. Abbies, Whitlock (McKinnon) 4.26.
11. Abbies, Kelly (McFarlane) 8.03
12. Crystals, Cahill, 12.24.
13. Crystals, Howatt (Cahill) 18.12.

Penalties—McKinnon, Whitlock.
Referees—Prowse and Arsenault.

Curling Today If Weather Favorable

Whether or not there was to be the regular Saturday curling competition this afternoon depended upon the vagaries of the weatherman it was announced by rink officials last night.

Should the weather be favorable the draw will be made this morning and the members informed by telephone.

It was also announced that three local rinks—Big Four, Moguls and Imperials—would journey today to Montague and engage eastern rinks in a series for the MacArthur trophy.

Last year rinks from Charlottetown and Montague tied in points for the coveted silver-ware.

MAROONS WIN 25-4

MONCTON, N. B., Feb. 4 (CP)—In the wildest scoring hockey game ever played here Moncton Maroons buried St. Stephen Maple Leafs 25-4 tonight and left a new mark for record books on the southern New Brunswick League. Maroons maintained their league leadership with a six-point margin.

IN THIS CORNER

Crystals proved last night that their brilliant display at Summerside on Tuesday night was no flash in the pan as they ran roughshod over the Abbies to chalk up their third straight victory and incidentally tie up the standing of the second section of the league.

* * *

There was no doubt but they were the better team. Their passing attacks were smooth; they took full advantage of their scoring opportunities and with the exception of the first fifteen minutes of the final period checked the Abbies to a standstill. On the other hand the locals were away below form. Seldom could they get a pass across right; they seemed slow at times and the really big fault in their playing was that they failed to cover their checks with any degree of consistency.

* * *

That is not meant as an alibi. It is very doubtful if at their best they could have beaten the Crystals last night and the fact remains that they just have to be considered strongly and on even terms before this years senior champions are crowned.

* * *

And a deserving bouquet to Charlie Cahill. His performance last night was remarkable to say the least. Years meant nothing to him. He just shook them off and went to work in a manner that reminded one strongly of 15 years age when he was a mere stripling just making his bid for hockey prominence, a bid that later saw him perform with Boston Bruins in the National League.

* * *

This may or may not be his last year in hockey but whether it is or not he can always look back on last night's game and remember it with a glow of pride in a job well done.

* * *

The final game of the junior hockey league is scheduled for the Forum tonight when S. D. U. and the Rangers clash in a game that will determine second place in the standing, and will also be the young Rangers final chance to chalk up a victory.

* * *

Rangers, still full of fight despite the two trouncings they took have held two practices since their last game and are anxious to cop this one. In their game against the Abbies they were far from the excited, disorganized squad that fell prey to the Royals and they made the Abbies step every minute and work their hardest for every counter they made. Perhaps tonight will be their night. Who knows.

* * *

Saints are every bit as anxious for a win as the Rangers are. They too have been holding stiff workouts and will report at full strength for the tussle. Saints showing in the league, the University's first attempt at junior hockey, has been real good. Noted for the fighting teams they put out the juniors proved no exception and tonight they will fight their hardest for the second place spot.

* * *

Congratulations to the "Big Four." Their victory in the Provincial Bonspiel held Thursday was both well-deserved and a popular one. The general good feeling and fellowship that characterizes the curling sport was well evident throughout the 'Spiel and the sportsmanship displayed will go far in fostering and further developing the game here.

* * *

An error tabulation in the Gaboury Trophy figures gave Charlottetown rinks a total of 55. This should have been 45, for the Summerside rink skipped by S. Merriam defeated the local rink skipped by S. C. Moore 16-7. It appeared in yesterday's issue Merriam 16, Moore 17.

* * *

Maple Leafs hold on first place in the Canadian Section of the N. H. L. doesn't appear any too secure these days with the high-flying Canadiens snapping right on their heels. They have a four-point advantage at the present but are faced with the none-too pleasant task of meeting Boston Bruins and Rangers on successive nights while Canadiens tackle Americans, a team they have beaten three times already this season.

* * *

And Canadiens are "hot," make no mistake about that. Leafs stopped them Thursday night when a victory would have meant a tie for leadership but likely the Montrealers will bounce right out of it and if they succeed in catching up with the Leafian clan N. H. L. fans will probably witness one of the hottest races to the wire in recent years.

* * *

Van Lingle Mungo, who has played many major roles in some of the more weird Brooklyn Dodger dramas, will be back in Ebbets Field. Mungo was for sale, but the price in cash or players was too high for any club in the National League, and none were ready to ruin their exchequers or wreck their teams to get him.

* * *

The big righthander signed for $15,000 and it is understood a refund of the fines he was assessed in 1937. The jams he got into cost him plenty—approximately $6,000.

* * *

The first of the series of his financial reverse was the $1,000 fine Manager Burleigh Grimes slapped on him for going haywire in a St. Louis hotel. In that little escapade Mungo converted a team mate's $75 suit into a rug. Later in the campaign he deserted his team and his pay was stopped.

* * *

The whole year he was fighting with the management and at loggerheads with other members of the team. Regarded as one of the greatest right-handers in the game, his raise in salary and the remission of his fines may persuade him to pitch the baseball he is capable of.

CORAL GABLES, Fla., Feb. 4 —(AP)—Patty Berg of Minneapolis won the Miami Biltmore women's golf tournament for the third consecutive year today by defeating Mrs. Jean Cothran Jameson of West Palm Beach, Fla., 4 and 3, in the 36-hole finals.

Games Fail To Break First Place Deadlock In Y-Basketball League

STANDING

	GP	W	L	P
Y-Knots	9	6	3	12
Grads	9	6	3	12
Esquires	9	4	5	8
P. W. C.	9	2	7	4

No change in the standing of the Y basketball House League resulted from the doubleheader played last night. Both the Y-Knots and Grads tied with 12-points apiece for the League lead came through with victories. The Y-Knots defeated the Esquires in the opening encounter 28-26, while the Grads deefated the P. W. C. team 31-19.

Godkin and Cullen sparkplugged the Y-Knots to victory sharing honors with 10-points apiece. The Esquires were thrown on the defensive from the opening whistle and trailed their opponents 15-9 at the end of the first half. The Y-Knots continued their scoring spree early in the second half, only to be outscored in the closing ten minutes of play when the Esquires unleashed a brilliant offensive. They garnered five field goals in rapid succession only to fall short of victory by two points.

The unpredictable Collegians, who have pulled many upsets in the league, flashed form early in the first period to lead an overanxious and cautious Grad squad 10-8 at half-time. The Grads, however settled down in the second half and went to work to outscore their opponents 23-11. Cox and Muirhead were high scorers for the Grads netting 15 and eight points respectively. MacDonald and Christie starred for the college team.

THE LINE-UPS:

Y-Knots: Beer 5, Harper 3, Partridge 0, Stewart 0, Leightizer 0, Cullen 10, Godkin 10.

Esquires: Anderson 0, Ayres 6, Langill 6, Rice 2, Walker 11, Weeks 0, Young 1.

Grads: Cox 15, Jones 0, Millie 2, Muirhead 8, Smith 6.

P. W. C.: Brown 0, Christie 6, Hennessey 4, Hughes 0, McDonald 7, McKinnon 0, Mullins 2, Nicholson 0.

Referee: Earl Goss.

Millionaires Retain Lead In Ice Loop

SYDNEY, N. S., Feb. 4 —(CP)—Sydney Millionaires topped Reserve Miners 9-6 to retain their lead in the Cape Breton Hockey League and North Sydney Monarchs pinned a 6-2 defeat on Glace Bay in tonights games.

Glace Bay and North Sydney each scored once in the first period but the Monarchs forged ahead in the second 20 minutes with three more tallies while Glace Bay was able to tally only one. Monarchs added two more in the final period.

Millionaires 4-0 lead at the first intermission faded as Reserve tallied two quick goals as the second opened but Sydney added two more before the period ended, the Miners getting one of them back.

The teams split six goals in the third.

SUMMARY
First Period

1. Glace Bay, Robert Anderson 14.20
2. Northside, Cormier, 17.15

Penalty —S. Clark

Second Period

3. Northside, Cormier (Clark) 2.20
4. Northside, Clark 7.22
5. Glace Bay, Rod Anderson 12.40
6. Northside, Estabrooks 16.00

Penalties —Robert Anderson, Montgomery, Kane.

Third Period

7. Northside, Estabrooks 10.35
8. Northside, Montgomery 17.30

Penalties —None.

SECOND GAME
(SYDNEY-RESERVE)

SUMMARY
First Period

1. Sydney, Malcolm (MacAdam) 9.40
2. Sydney, MacAdam (Nicholson) 18.10
3. Sydney, Estabrooks (Malcolm) 19.50

Penalties —E. MacDonald, MacGibbon.

Second Period

4. Reserve, Williams (F. Morrison) 2.20
5. Reserve, E. MacDonald (F. Morrison) 3.55
6. Sydney, MacAdam (Malcolm) 7.50
7. Sydney, Bill MacDonald (MacIibbon) 10.05
8. Reserve, B. MacDonald (Morrison) 13.05

Penalties —None.

Third Period

9. Reserve, B. MacDonald 5.00
10. Reserve, Morrison (E. MacDonald) 6.10
11. Sydney, Estabrooks (MacGibbon) 9.15
12. Sydney, Estabrooks 10.10
13. Reserve, McInnis 12.20
14. Sydney, Young 19.50

Penalties —Estabrooks, Whelan.

Hockey Results

(C. P. by Guardian's Special Wire)

Eastern League:—
Kentville 5; Dartmouth 4.

Nova Scotia League:—
New Glasgow 5; Truro 2.

South Shore:—
Bridgewater 13; Liverpool 1.

Exhibition (Junior):—
Halifax Canadiens 11; Amherst St. Pats 2.

Cape Breton League:—
North Sydney 6; Glace Bay 2.
Sydney 9; Reserve 6.

Valley League
Acadia University 8; Windsor 4.

EXTRA SPORT ON PAGE - 11

Sport Forum

LORD DERBY DEFEATS BORALMA IN $40,000 RACE

Sir, — Lord Derby defeated Boralma, August 1, 1902, in an unsatisfactory race at Charter Oak Park, Hartford, Conn. and thereby won about $50,000 for his owner, E. E. Smathers of New York. The match was for $20,000 a side and 60 per cent of the gate receipts. This was the greatest sum ever won by a trotter in a race and it is estimated that 15,000 people witnessed the event. Both horse appeared fit. In the first heat Lord Derby drew the pole but lost it. At the quarter Marsh drove Boralma out in the lead and Geers was content to let him make the pace. At the seven-eighths pole Geers called on Lord Derby and the latter went to a break. Previous to the race the betting was 10 to 6 with Derby the favorite. After this the betting was at even money. When scoring for the second heat admirers of the Boston horse noted something was wrong. The true going little chestnut rolled badly, pulled and tugged and appeared to be lame. This heat was a second and a half slower and Lord Derby had it well in hand all the way. In the third Boralma went to a break at the lower turn and could have easily been shut out had Geers so desired. On examination after the heat it was discovered that Boralma had laid bare his ankle to the bone, also had cut his quarter off which necessitated his being drawn. The final heat was a walkover for Lord Derby, in order to comply with the conditions of the race, the time being 3.44, immediately after which Mr. Geers drove the gelding an exhibition mile in 2.08 flat, the fractional time being 32 1-4, 1.05, 1.36-3-4, 2.08. There were no sensational quarters in the race, and in the first two heats Boralma was the pacemaker and led Lord Derby by a good margin in the stretch. The betting on the race was quite light as compared with the race in which these two fast geldings met a year ago. Several pools were sold in which Nick Hubinger and E. E. Smathers paid $1,000 for Lord Derby, while Joe Hubinger and others took the $600 end on Boralma. The card of the day was completed with three other races, of these the 2.09 pace furnished the most speculation and E. E. Smathers lost $7,500 backing Sphinx S to beat Joe Pointer.

Match Race Trotting $20,000 a side

Lord Derby b.g. by Mambrino King (Geers)	2 1 1 1
Boralma ch. b. by Boreal (Marsh)	1 2 2 dr

Time
32 1-4, 1.04, 1.36, 2.08.
32 3-4, 1.05, 1.37, 2.09 1-2.
35 3-4, 1.08 1-4, 1.40 1-4, 2.18 1-4
Walkover 3.44.

I am, Sir, Etc.,
J. M. NICHOLSON

Canadiens Trim St. Pats

HALIFAX, Feb. 4—(CP)—Amherst St. Pats, Maritime junior hockey champions, were defeated, 11-2, here tonight by Halifax Canadiens in an exhibition game.

The powerful attacking line of Little-Hannon-Thomas accounted for six of the Halifax team's goals while working as a unit, and added other points when split up.

Little accounted for two goals and was credited with five assists and Bob Copp, St. Pat's player who is an Mount Allison University's lineup in intercollegiate hockey, scored one of the Amherst goals.

Canadiens went ahead, 3-1, in the first period, added three more in the middle session and five in the last as the Maritime champions scored their second goal of the game.

Mushky Sore, Seeks Revenge On Champion

NEW YORK, Feb. 4—(AP)—Joe Louis, happy between helpings of fried chicken is liable to choke when he hears the news but his old hero worshipper, Mushky Jackson, well known Broadway fight character, is on the warpath with Patsy Perroni running his interference.

Mushky, who admits without a bit of bashfulness that it was his crazy talk that led Joe to the heavyweight title because his crazy talk made Joe relax and stay away from hot spots, has signed up to do the same thing for Heavyweight Perroni. Mushky's new fighter is one of the few men who lasted 10 rounds with the Brown Bomber.

"I've got everything but St. Vitamin's dance over the run-about I've got," puffed Mushky. "I been with Louis since he fought Carnera. He even wins the heavyweight championship on my boithday, June 22, from Braddock and then he fires me. No man can win a heavyweight titul on my boithday and give me the bum's bounce. He'll be sorry."

Actually, for record purposes, Mushky is not Perroni's manager. Henny Andrews, a slick guy from Syracuse and Broadway, holds the marionette strings on the 25-year-old Italian slugger from Harlem. Andrews believes that Mushky, who isn't exactly as dumb as he'd have you believe, knows enough inside stuff on Louis to be of great service when—and if Patsy ever gets another crack at the Champion.

"Do I?" demanded Mushky. "I know all of Joe's weakenings. For the things I know Max Schemling would give me plenty. There's one punch he can't understand and..."

"Yeh, I know—a right like Schmeling laid on his chin," offered Andrews.

Miniature Rifle Shoot

A team captained by R. E. Jenkins Thursday night scored a 141-140 win over a second team captained by W. W. Walsh in a match shoot of No. 6 District Signals at the Armouries.

On the winning team were, R. E. Jenkins, F. Pickard, E. R. Burke and C. R. Saunders while the second team included W. W. Walsh, L. A. MacDougall, A. D. MacMasters and Thurlow Hiscott. The three highest scores of each team were counted in the aggregate.

R. E. Jenkins shot a 97 to head contestants in a regular shoot. Other scores were W. W. Walsh 95, F. Pickard 94, D. E. Mayne 94, A. D. MacMasters 93, E. R. Burke 93, L. A. MacDougall 93, Willard Kelly 91, W. T. Hooper 91, J. C. McKenna 90, C. R. Saunders 86, V. E. Connors 86, Thurlow Hiscott 85, Clarence McInnis 85, C. Baker 85.

The first stage of the Purdie Ferguson shield competition will take place Monday night and a prize shoot will also be held.

Races Depend On Weatherman

Yes, there will be ice races this afternoon on the Driving Club's course opposite Victoria Park, providing the weather is cold.

A course was cleared off on Thursday but the rain yesterday softened it up so that frost is necessary to make it fit to race on. If conditions are favorable the racing this afternoon will be the best of the season.

Fred Apostoli Wins Bout

NEW YORK, Feb. 4—Fred Apostoli, "uncrowned king" of the middleweights, was forced to his limit tonight to win the decision over Glen Lee, courageous Nebraskan, in a 12-round blood-and-thunder battle that had a large Madison Square Garden crowd in an uproar from start to finish.

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Forum Program Today

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15—Bands—15

HOCKEY TONIGHT

S. D. U. VS. RANGERS
Final League Game
Face-Off 8 O'clock

Admission ——————————15c

L-2079

DOWN THE BACK STRETCH

Races today on the harbor ice opposite Victoria Park.

Cecil Alexander, Saint John, N. B., has sold the pacing stallion, Calumet Singo, 2.04, elegible to the 2.13 pace, to Harold Lisson, Sussex, N. B. Mr. Alexander purchased the above horse at the Indianapolis sale last fall. He has paced some very fast heats, having been timed close to two minutes when racing on the Grand Circuit.

Haste, by Peter Volo, 2.02, is now owned by Frank MacAlduff, Alberton. She is due to foal to Soviet 2.12 1-2. By the way, Soviet is almost a full brother to Spencer 1.59 1-2, one of the leading sires in America this year. Both were sired by Lee Tide, 2.05 by Lee Axworthy 1.58 1-2.

A quarter in 32 1-2 seconds by two-year-old trotter is the latest news from Orlando, Florida. The little miss is Diana McElwyn, bay filly, sired by Mr. McElwyn 1.59¾. Another of the McElwyn's, the two-year-old Mack Bell, has trotted in almost identically the same notch.

The youngster that is attracting the most attention in Florida at present is not either of the above, but Princess Margaret, two-year-old sister to Protector 1.59 1-4 and The Marchioness 1.59 1-4, former holders of the world's record for three-year-old trotters. The Princess is one of the most beautiful specimens of the harness horse that has ever been foaled and her disposition is perfect. While she has not shown the extreme speed of the two McElwyns, yet her manners and appearance cause her to be the most talked of juvenile for many years.

Paul Bowser, ex-wrestler, seems to have a genius for picking good colts. Years ago he bought Tara and she became the world's champion four-year-old trotter with a record of two minutes, and was sold for export to Italy where she has been going great guns. In 1935 he bought DeSota and as a two-year-old in 1936 he trotted well and as a three-year-old last season took a record of 2.02 1-4, won upwards of $10,000 in stakes and was sold at that figure. At the Old Glory in November last he purchased the yearling pacer Guy Drew that is now considered by almost everyone as a pacing phenomenon. Walter Cox than whom there are few better judges, says he should never have let Bowser get away with that colt.

Just to give you an idea of how Bowser's ex-champions are performing in Europe I may say that DeSota (3) 2.02 1-4 won the International Trotting Handicap at Vincennes track, Paris, a week ago last Sunday. It is the most famous race in Europe. The distance is one and five-eighth miles and the footing is not the best by any means and is used mostly by the runners. However, DeSota had what it takes, as he proved by winning from all the European horses either of French, German, Italian or Belgian breeding and a whole bunch of ex-American stars. DeSota was first, Tara second, Calumet Epsom third, Joy Lincoln fourth and Calumet Delco fifth. Thus two of Paul Bowser's former trotters divided the honors.

DeSota is a son of Peter Volo 2.02 and Symphonia 2.03 by Guy Axworthy. He was bred by Walnut Hall Farm and sold in the 1935 Old Glory to Paul Bowser for $7,500. Symphonia, dam of DeSota, was purchased at the Old Glory Sale by Walnut Hall Farm for $16,000 and was one of the highest priced brood mares in recent years.

The winning of the first five places by ex-American horses in the great French trotting event will be a severe blow to the pride of the French breeders, who have contended that the American trotters do not possess the stamina necessary to win over the longer distance and rough course. It will probably mean that Europeans will import larger numbers of American trotters this year providing they can make the necessary arrangements to get the money out.

In this connection we note where the Italians have been successful in that respect as The Duchess, sister to Protector 1.59 1-4 and The Marchioness 1.59 1-4, has been bought by Count Mangelli of Milan. She will remain in this country until her 1938 engagements are raced and will be trained and driven by Will Caton, who developed and raced her illustrious brother and sister.

The next edition of the Encyclopedia Britannica will have an article on the trotter and harness horse racing, written by Frank Kenney, Secretary of the American Trotting Register Association.

The writer's attention has been drawn to the subject of mineral deficiency in soil and its consequent effects on the nutrition of animals (horses or cattle) grazed on that soil or the products taken from it. Professor Erf of Ohio State University, who is consultant to the International Food Products Company, Limited, Summerside, has spoken on the subject both in Charlottetown and Summerside on visits here, the past two years. He is considered one of the outstanding authorities on the subject in the United States.

Dr. Lee Humphrey has written an article entitled "A Feeding Experiment", giving some reasons why the E. B. McLean race horses headed the list of money winners in 1938. In brief it is as follows: "The McLean Company maintained a large farm at Leesburg, Virginia, devoted to the breeding of thoroughbred race horses. They owned their own stallions and mares, brought up and developed the progeny. For years they were very successful then started to slump so called in Dr. Humphrey to find out the cause. He looked the farm over and come to the conclusion that the land was not sufficiently mineralized to provide nutrition for the number of animals kept. He took blood samples of the mares, colts and fillies and sent them to John Hopkins University for analysis. The chemist there reported every sample as deficient in calcium and phosphorous.

Dr. Humphrey went to work immediately to improve the pasturage. A large accumulation of manure in the cattle yard was spread at once followed by an application of one ton of ground burnt lime to the acre. After the first rain the land so treated, was re-seeded with mixed clovers and a small amount of blue grass. Following this on the same land 350 pounds of 16 per cent super-phosphate was spread. These applications were made at the far end of the colt and filly pastures, partly because that end of the pastures had been badly neglected and partly because the best grass there would mean additional exercise for the stock coming to and from the barns. The colts and fillies became so attached to these far ends of their paddocks that it was often necessary to send a man down to bring them back even at feed time. Their preference for these fertilized and mineralized plots was unmistakable.

The horse manure from the barns were run through the cattle yard and tramped down by 40 head of cattle kept for that purpose. The cattle were fed cotton seed meal, shelled corn, ensilage and hay. Hogs were kept with the cattle in order to work up the manure, add their own contribution to the mixture and eat the corn undigested by the cattle. As this manure became available from the cattle yard it was spread on the horse pastures.

The feeding schedule was changed. No feed was cooked. Following the clue of mineral deficiency the heaviest oats obtainable were brought from the Pacific Coast at a cost of one dollar per bushel delivered at the farm. The mineral content of these oats is so heavy in comparison with standard oats that for purpose of supplying mineral deficiency they appeared cheap even at that price. With these oats was fed green alfalfa meal not exceeding one pint per feed, together with brown yellow corn and linseed meal.

The colts were also fed a cod liver oil emulsion containing calcium and phosphorous. This emulsion was fed for ten days then suspended for ten days then fed for another ten days. Hard grain was used as the grain ration based on the old theory that hard grain makes hard horses. At the end of 90 days from the time this feed schedule and mineralized program had been put into effect, blood samples were taken from the same animals as before. This time instead of reporting by telephone the chemist from John Hopkins University called personally to find out what had made such a radical increase in the quantity of minerals shown in his analysis of the blood samples. At this point I should explain that I have followed the course I have outlined because I believe it is better to supply these minerals through the natural feeds as much as possible rather than through artificial concentrates."

It is impossible in the limited space which we have at our command to give the article in full, although it deserves it. Suffice to say that at the conclusion of the third year after Dr. Humphrey took charge of the feeding of the E. B. McLean stables they were the leading money winners in America, winning sixty races and $234,640.

Every day the writer is becoming more convinced that the soil of this Province has become largely de-mineralized and that steps similar to those taken by Dr. Humphrey will be required on a great many farms before we can hope to produce high class colts and fillies, not to mention cattle. I have observed year after year the training of two-year-olds and three-year-olds at the Charlottetown Driving Park track and invariably arrived at the conclusion that they were deficient in bone and substance—not properly nourished—to enable them to stand a course of training in their juvenile form. I have seen some lamentable instances such as a breeder breeding a high class mare to a high class stallion, then pasturing her on pasture land that was practically destitute of nutriment, at the same time expecting that she would give birth to a beautiful, well-developed foal. Our breeders should carefully ponder the experience of Dr. Humphrey recorded above and figure out if his experiments are applicable to their environment.