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1 Gladstone Carriage, 2 seats, pole and shafts bob-sleigh attachment.

2 Set Single Harness.

1 Set Double Harness.

2 String of Bells.

Sale rooms in his stable at the rear of drug store, cor. Yonge and 4th Centre Sts., 12-11

King Township Council

Council met at Sutton's hotel, Schomberg, on Feb'y 23. Members all present. Reeve in the chair.

The following bills were passed:

Hart & Riddell, stationery \$17 00

J. Thompson, grant 10th con. 92 00

J. Kitchen, hardware 1 75

W. H. Proctor, plank 14 34

R. Hughbey, blacksmith bill 75

Wm. Crawford, culvert 6 00

J. Crook, gravel 27 44

C. Patterson, registering births 41 40

J. Egan, road repair 1 75

S. H. Lundy, bal. pr'tg contract 61 00

R. Elmer, tax refund 3 37

D. Blough, allowance as auditor 8 00

D. McGill, allowance as auditor 8 00

Jos. Billings, 2 months' salary 58 00

Joel Edwards, balance of salary 25 00

W. J. Wells, balance of salary 25 00

H. Bodfish, tax refund 1 00

T. Wray, sheep claim 10 66

A. McClure, sheep claim 7 33

J. John Cherry, sheep claim 13 33

P. S. Gibson, on account of Schomberg survey 80 00

The tender of W. H. Proctor to furnish cedar plank at \$14 per M., was accepted.

The tender of the Cardwell Sentinel for township printing was accepted at \$90.

The Clerk was instructed to notify the Reeve of East Gwillimbury to have their share of north townline from Yonge St. to 2nd con., put in proper repair for traffic.

The sum of \$40.00 was granted on Lloydtown Road in 5th con.; Murray and Hambleton to be commissioners.

John Paxton was appointed Road Overseer in place of Wm. Baradell, who has left the township.

The Auditor's Report of the Treasurer's Account for the year ending Dec. 31, 1900, were presented, and after explanations were made by Auditor McGill and Treasurer Walton, it was accepted as satisfactory.

There are not many single taxers in King Council, so a communication from the Single Tax Association was given the six months' hoist.

The Clerk was instructed to prepare a by-law to pay a bonus for the planting of shade trees under the tree planting act.

Next meeting of the council at Temperance Hall, Laskay, on Saturday, March 30.

CHAS. PATTERSON, S. LEMON
Clerk. Reeve.

Composition of Foods

By AGRARIUS

One of the important points where chemistry has invaluably benefited farmers is in the analysis of feeds grown on the farm, and in the valuable foods in the market that is of times purchased to feed live stock.

A great number of feeding tests have been made at the German Experiment Stations in order to find out what proportions of Albuminoids and Carbohydrates gives the best results, and the conclusions are given in "Feeding Standards."

These standards were not prepared by theorizing book-worms, but by men of scientific habits, who came to their conclusions through a series of careful experiments. They are, therefore, not based upon suppositions, but on carefully ascertained facts, and the conclusions reached are of practical value and importance.

Now I had better state, in order to understand more clearly, that Albuminoids are the elements that produce blood, muscle and milk, and the Carbohydrates are those which produce heat and fat. There is also a fat in all food in the shape of oil (linseed meal, for instance) that produces heat and fat also, and the two are reckoned together in all tables. I shall write more particularly of composition of food for hogs, but the composition applies to all live stock.

We will now explain the Nutritive Ratio. If a food contain one part protein, or Albuminoids, to four parts Carbohydrates, we call it the Nutritive Ratio, 1:4, and so on, 1:5, 1:6, up to 1:10; 1:4 is called narrow ration, and 1:10 a wide ration; 1:6 is about right for all grown animals.

One group of pigs that were 68 days' old were fed a 1:3.93 ration narrower than 1:4 and gained in 13 days at the rate of 100 lbs. on 302 lbs. of grain. Another lot under similar conditions were fed a wide ration 1:8.27, and gained at the rate of 100 lbs. on 436 lbs. of grain, a difference of 44 per cent. Now how to save 44 per cent. of feed in reaching the same results is certainly worth knowing. But at a greater age the results were reversed, and after the fifth month the wider ratio gave the best increase. When the two lots were 247 days' old the test was continued for 66 days. The first lot was fed on a ratio 1:4.05, consuming at the rate of 582 lbs. for 100 lbs. gain. The other lot on ratio 1:5.76 gained 100 lbs. on 493 lbs. of food, a difference of 16 per cent. in favor of the wider ration. In short different ratios were found advisable at differ-

ent ages, as shown in the following table:

Age.	Ave. live weight.	Ratio
2-3 months	50 lbs.	1.4
3-5 "	100 "	1.5
5-6 "	125 "	1.55
6-8 "	170 "	1.6
8-12 "	250 "	1.65

These proportions can be prepared with many different feeding stuffs, providing we know their composition. The following table is based on the analysis of Prof. Armsby, and gives the proportion of digestible protein and carbohydrates in the usual feeders:

	Protein.	Carbohydrates and Fats.
Peas	20 per cent.	56 per cent
Barley	9 1/2 "	64 "
Oats	9 1/2 "	52 "
Corn	9 "	71 1/2 "
Oil Meal	26 "	42 1/2 "
Wheat Bran	2 "	47 "
Rye	10 "	48 "
Skim Milk	3.5 "	5.5 "

Now we will look at the foregoing table. We see peas is hardly 1.3, barley almost 1.7, rye about 1.5, oats 1.6, corn almost 1.8, oil meal very narrow 1.175, wheat bran 1.4, skim milk 1.162, butter milk 1.24, whey 1.56, fresh cow's milk 1.25, Potatoes 1.10.

Oats we see is a complete food, that is the reason hogs do so well on it, and it gives us good results, even the brawny Scotchman thrives on oat meal. In oats we get right amount of blood and muscle, and enough heat and energy. In corn we get too little of the protein, and were we to feed enough corn to give right amount of muscle and blood, we would kindle a flame of heat and energy that would exhaust the other and a great amount of food would be wasted in carbohydrates by the animal. We see fresh cow's milk is very narrow, 1.25, and the calf thrives well on it. We find though that it requires more as it grows older and we have to feed it a wider ratio. An important fact with all animals is that they take on fat the most readily just when they reach maturity.

Now, supposing we were going to feed pigs that have just been weaned, say 2 months' old, and average 50 lbs. live weight. We look at first table and see the ratio 1:4.

How to get the nutritive ratio may be misty to the reader, so I will explain. Looking at the second table we see 100 lbs. peas gives 20 lbs. protein and 56 lbs. carbohydrates and fats. Divide protein into carbo's, 20/56 (2:4.5), we get 2:4.5, carried into a decimal we have 1.28, the ratio of peas.

Concord.

School Report for February.

Sr. IV—Elmore Reaman, Ada Miles, Edgar Bowes, Lizzie Cooper, George Miles.

Jr. IV—Maud Lee, Elsie Troyer, Chas. Golland.

Sr. III—Fred Miles.

Jr. III—Ethel Whitmore, Flora Golland, Jesse Farrel, Margaret Stewart, Wilkie Bowes.

Sr. II—Ross Charlton, Walter Stewart.

Jr. II—Tena Vanderburgh, Jesse Bowes, Pearl Miles, Mary Golland, Maud Poole, Albert Bowes.

Pt. II—Ella Reaman, Bert Evans.

Pt. I—Pryce Evans, Eddie Clarke, Ida Clarke.

Present every day—Edgar Bowes, Fred Miles, Flora Golland, Birdie Riddell, Wilkie Bowes, Ethel Whitmore, Mary Golland, Pearl Miles, Eddie Riddell.

Aggregate attendance, 576.

Highest daily attendance, 37.

E. J. A. JOHNSON, Teacher.

Patterson.

School report for the month of February:

Sr. IV—R. Rumble.

Jr. IV—A. Rumble.

Sr. III—H. Rumble, V. Charles.

Jr. III—E. McNair, J. Wilson, H. Johnston, A. Savage.

Sr. II—F. Rumble, L. McNair.

Jr. II—J. Keith.

Sr. Part II—J. Rumble, C. Major, A. McNair.

Jr. Part II—R. Rumble.

Part I—N. Rumble, M. Charles and J. Rumble equal, T. Doyle.

Present every day—H. Rumble, C. Johnson, E. Johnson.

S. S. No. 4, Markham.

Report of S. S. No. 4 Markham, for February:

Jr. IV—Samuel Doner, Ada Hoover, Elsie Brillinger.

Sr. III—Charlie Williams, Maggie Cosgrove, Stuart Read.

Jr. III—Foster Hickson, Anthony Nigh, Roy Nelson.

Sr. II—Clarence Doner, Alex. Williams, Frank Kelly.

Jr. II—Gertie Nelson, Charlie Hoover, Harold Smith.

Tab. III—Rolph Williams.

Tab. II—Maggie Baker, Rolph Baker, Carrie Williams.

Headford

Sr. IV—Frank Barker.

Jr. IV—A. Henricks, Levi Elliott.

Sr. III—Annie Richards.

Jr. III—Herb Kelly.

Sr. II—Freeman Barker.

Jr. II—Harold Rutherford.

Pt. II—Jimmie Hunt.

Sr. Pt. I—H. Richards, Ida Barker.

Jr. Pt. I—Douglas Rutherford.

Langstaff

Langstaff School Honor List for February.

Class IV—Flossie Casely, Emily Boyle, Mabel Gooderham.

Sr. III—Almedia Clubine, Margurite Boyle, Randal Page, Emma Weldrick, Gene Chapman.

Jr. III—Freddie Page, Otto James.

Jr. II—Herbie Luesby.

Sr. Pt. II—Lorne Gooderham, Mary Lowry, Myrtle Weldrick.

Jr. Pt. II—Fred Chatterley.

Pt. I—Robbie Lowry, Mabel Chatterly.

LOTTIE WALDRON, Teacher.

Jefferson

Report of Jefferson school for the month of February:

Class IV—Gladys Legge, George Topper, Ella Casely.

Class III (part a)—Gladys Saigeon, George Brown, Jennie Gamble, Eddie Gamble, Hermon Casely, Aimey Phillips, John Mortson, George Hart, Charles Hart, Ella Phillips.

Class III (b)—Gladys Legge and Jean Topper equal, Stella Clubine, Pearl Phillips.

Sen. II—John Kerswill.

Jun. II—Stella Murphy, Annie Bell, Andrew McNair, Earny Dibb, Lorne Clubine, Eva Jones, Stella Casely.

Sen. Part II—Harold Murphy.

Jun. Part II—Aubrey Nicol, Stanley, Casely, Edgar Phillips.

Sen. Part I—Wroxey Topper.

Jun. Part I—Elgin Nicol, Willie Patton.

H. J. SAIGEON, Teacher.

Notice to Creditors

In the matter of the estate of STEWART BLAIN

Late of the Village of Newton Brook in the County of York, Gentleman, Deceased.

Notice is hereby given pursuant to the Revised Statutes of Ontario, 1897, Chapter 129, that all creditors and others having claims against the estate of the said Stewart Blain who died on or about the Sixth day of February, A. D. 1901, are required on or before the Eighteenth day of April, A. D. 1901, to send by post prepaid or deliver to Messrs. Lindsey & Wadsworth, of the Freehold Building in the City of Toronto, Solicitors for John Blain and Elizabeth Blain, the Executor and Executrix named in the last will and testament of the said deceased, their christian and surnames and addresses and descriptions, the full particulars of their claims, a statement of their accounts and nature of the securities, if any, held by them. And further take notice that after such last mentioned date the said executors will proceed to distribute the assets of the said deceased among the parties entitled thereto having regard only to the claims of which they then shall have notice and that the said executors will not be liable for the said assets or any part thereof to any person or persons of whose name notice shall not have been received by them at the time of said distribution.

Dated the 26th day of February, A. D. 1901.

LINDSEY & WADSWORTH,

Solicitors for John Blain and Elizabeth Blain, Executor and Executrix of the said Stewart Blain, Deceased.

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