

# In The Automobile World

## NEWEST NOTES OF SCIENCE

Keep grease and oils away from your tires and tubes. A broiler invented in England consists of a tent shaped wire in which meat is hung over stove openings.

Several years of experimenting in Cuba have shown that sea island cotton can be grown there successfully.

Telephones are built into a new helmet for aviators to permit them to converse with companions while flying.

Attached to a new automobile radiator cap is a fan which, when revolved by the wind, helps to cool the water.

A gasoline engine driven dynamo that is entirely automatic in its action is attracting attention in England.

An actress in the patentees of a capacious trunk which can be converted into a complete bureau and dressing table.

A process has been discovered in Germany for obtaining nickel and cobalt from pit waters containing these metals.

Bread can be held at any desired distance from a new electric toaster so that toast is made moist or dry as wished.

A Swedish scientist is the inventor of a camera that has photographed the aurora borealis on a motion picture film.

A new hammer intended for heavy work is so reinforced that the inner portion has a cushioning effect upon the handle.

Tungsten, which only in recent years has come into general use, was discussed exhaustively by a Spanish treatise written in 1781.

A Chicago woman has patented a shoe with an electric battery in the heel to supply a mild current to a wearer's ankle as a tonic.

Apparatus using a pivoted arm that is strapped to a man's shoulder has been invented in England to teach correct golf strokes.

Scientists in Europe have developed a process whereby illuminating gas producers can manufacture ammonia by synthesis.

An eighteen-year-old Utah boy is the inventor of a combined ruler and triangle that solves problems in trigonometry, geometry and mechanical drawing.

An instrument has been perfected by German electricians for accurately measuring the voltage of high tension currents up to 150,000 volts.

Introducing air into water to produce an emulsion, a French engineer

has succeeded in raising it in a suction pump to a height of 60 feet.

According to Dutch figures, Japan was second to the United States in the production of copper last year, and was followed by Chili and Mexico.

A fan shaped hopper, within which is a movable blade, forms an implement patented by an Englishman for quickly slicing fruit for marmalade.

Two endless friction belts, revolved close together and in the same direction, but at different speeds, feature a new machine for hulling small grains.

For removing hair from hides to be tanned English chemists have developed a process using lime, sulphur and soda instead of more expensive chemicals.

An automobile alarm whistle to be connected to the cylinders of a car can be made to utilize the full force of their explosions when desired.

By liquefying the gas helium, a European scientist has succeeded in reaching temperatures within six degrees of the absolute zero.

Miss Malvina Hoffman has been awarded by the National Academy of Fine Arts a prize of \$500 for her sculpture entitled Russian Bacchante.

Germany is planning to conscript women after the war and make them undergo a regular period of military training such as the men and boys do now.

An Oregon inventor is the patentee of a sanitary drinking cup to be mounted on a faucet so as to be swung out of the way when the faucet is used for its usual purpose.

Experiments have shown that, with the aid of irrigation, cotton can be grown in winter in the Sudan and experts believe that 2,500,000 acres in one region can be irrigated.

Spring brass plates, fastened together in the centre and with one end lined with rubber and the other with felt, form a new device for cleaning and drying safety razor blades.

Persia is the home of a weed the seed pods of which have long horns that enter the nostrils of grazing animals and frequently kill them by preventing them from eating or drinking.

A Pennsylvania scientist claims to have developed a method by which 90 per cent. of the radium in its ore is recovered, a greater percentage than by any other process in the world.

A European record for the most heavily laden freight train was established by a Russian railroad when an American locomotive hauled a train 2,800 feet long with a load of 4,424 tons.

When a woman takes up the physical culture she is anxious either to put on fat or take it off.

## Farm Tractor Is Necessity of War.

Eighteen million horses on 6,000,000 American farms are enough grain in the past year to feed 40,000,000 persons, or about one-third the population of the United States.

These figures from the Department of Agriculture assume vast importance in the light of propaganda to increase production of food during the war.

However, due to many causes, chief among them tendency of the up-to-date farmer to motorize his farm, horses are becoming fewer and fewer every day. Every horse that gives way to the modern mechanical "beast of burden," the farm tractor, is helping to defeat the enemy by conserving a daily ration of oats, bran and corn.

Without food and without means of producing food, we cannot win the war. Hence the farm tractor becomes a necessity of war. It does the work of several teams and men, works twenty-four hours a day and every season of the year, and does not eat food that should go to the armies.

The farm tractor, being a necessity of war, should receive the same consideration that is given to guns, munitions and liberty trucks. Steel must be had for the manufacture of tractors, and unless priority is given, the makers will be unable to produce in quantities sufficient to help farmers.

## THERE ARE EQUIPMENTS.

Proper Precaution Would Prevent Much Auto Theft.

Ninety per cent. of the loss from automobile thefts could be prevented by the exercise of proper caution on the part of the owners, says the general manager of an automobile company.

It is estimated that the cost to car owners from thefts run close to \$60,000,000 yearly in the United States," he adds. "In Philadelphia more than 2,000 cars valued at nearly \$2,000,000 were stolen during the first ten months in 1917. Less than half were recovered. In Chicago, police records show that 10,000 worth of cars are stolen nearly every day.

"There is a certain responsibility resting on the manufacturer to equip his car so that it cannot be easily driven away. Dozens of schemes for baffling the thief have been suggested. The four-tumbler cylinder ignition lock has been found very effective, as the engine cannot be started unless the ignition system has been turned on, and it is impossible to do it without the key. Some makers are providing these locks with individual keys, and only two keys are made for each lock, so that the thief cannot use duplicate keys."

## Voice of the Auto Cries Out, "Use Me."

The motorcar at home is playing a most important part in the war, and, although few people realize the fact, it is one of the big silent factors that will help win.

The war has forced us to turn to the motorcar, because it helps us to do everything with the least effort, the greatest speed and with greatest economy. We are now compelled to do double the amount of work in the same time. Little did the American people, who are known as a nation of wasters, think they could accomplish so many things they are doing to-day. Shortage of help was first looked upon as a handicap but then the automobile stepped in and literally said, "Use me, I can take the place of several men."

And how great a truth this has proved to be! The motorcar to-day is more essential than ever before. It has changed our whole method of living and has been a renaissance in the art of production.

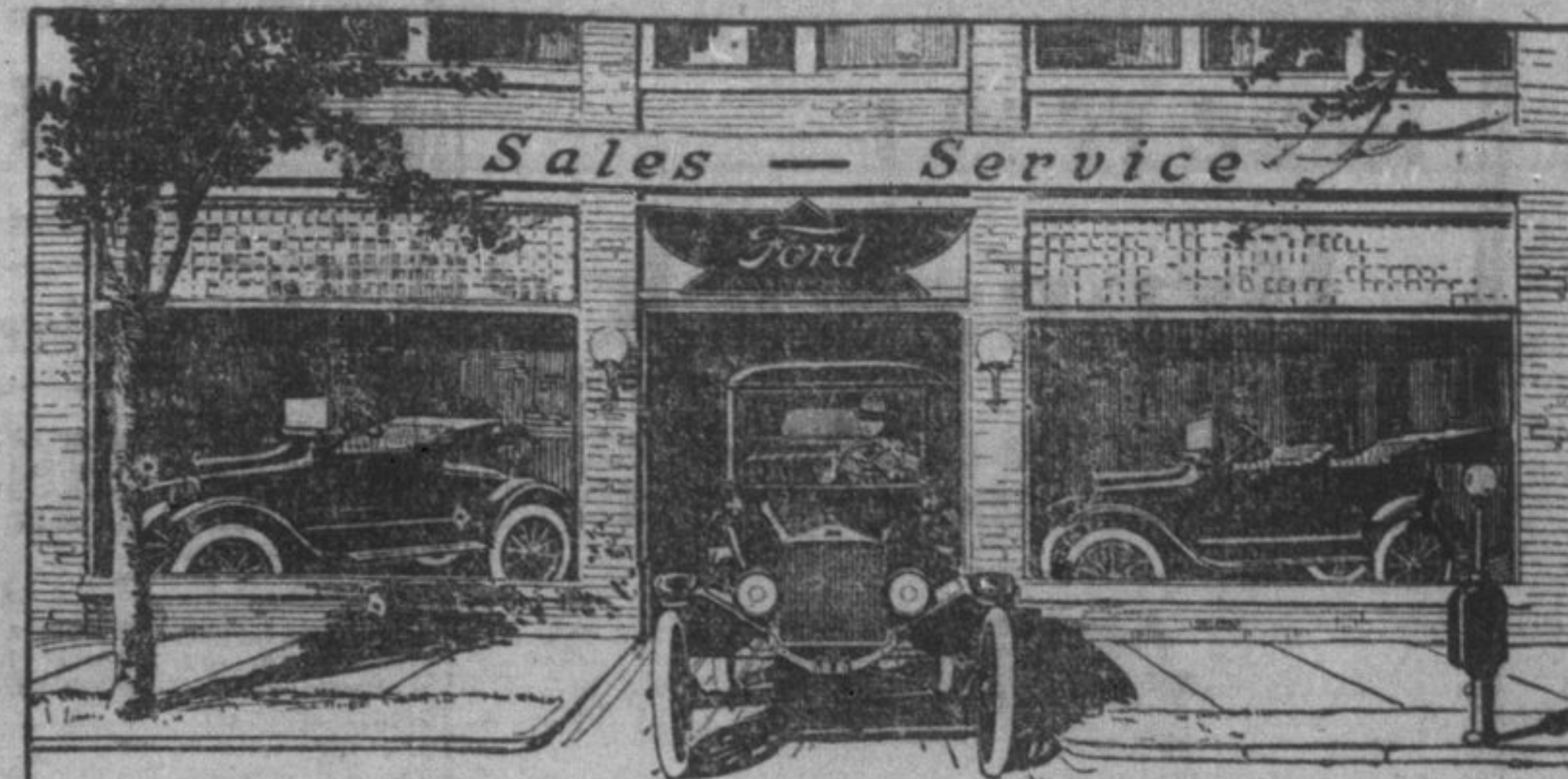
The Swiss Government is conducting experiments in the use of compressed turf as a substitute for coal.

## THE AUTO INDUSTRY.

Sustains 5,000,000 People in United States.

Though it has been in existence only about fifteen years, the automobile industry has in that time outstripped every American industry—save steel and the railroads, which are five times as old.

And in these gigantic strides it has at once become the bread and butter of 4,000,000 men, women and children, directly dependent upon its wages. To this add the families of accessory makers and other lines dependent upon the motor plants—and the result shows, in round numbers, that 5,000,000 people in the United States obtain their warmth, bread and butter and clothing from the wages of the motor industry. Well might the far-sighted reader be concerned when he asks the question: "If the automobile industry, what would be come of them if anything happened to the industry?" Five million empty mouths is the answer.



## Complete Service to Ford Owners Everywhere

COURTEOUS attention to your needs wherever you may travel is something you appreciate, and being a Ford owner you can get it. You are always "among friends".

There are more than 700 Ford Dealer Service Stations throughout Canada. These are always within easy reach of Ford owners—for gasoline, oil, tires, repairs, accessories, expert advice or motor adjustments.

The cost of Ford Service is as remarkably low as the cost of the car itself. Nineteen of the most called for parts cost only \$5.40. Just compare this with the cost of spare parts for other cars and you will realize the advantage of owning a Ford.



- Runabout . . . \$575
  - Touring . . . \$595
  - Coupe . . . \$770
  - Sedan . . . \$970
  - Chassis . . . \$535
  - One-ton Truck - \$750
- F.O.B. FORD, ONT.

Van Loven Bros., Kingston - Moscow  
G. H. Richardson, Tamworth.  
J. A. Goodfellow, Parham.

# News And Views Of And For Farmers

## The Market Reports

### LIVE STOCK MARKETS.

**Montreal, March 8.**—Butcher cattle—Steers, choice, \$11.25 to \$11.75; good, \$10.25 to \$11; medium, \$9 to \$10.50; cwt. Bulls, choice, \$10.50 to \$11; good, \$9 to \$9.50; medium, \$8 to \$9; cwt. Cows, choice, \$10.25 to \$10.50; good, \$9 to \$9.50; medium, \$8.25 to \$8.50; cwt. Sheep, \$11 to \$12; lambs, Quebec (few), \$15 to \$15.50; Ontario, \$16 to \$17 cwt.

Hogs, select, \$19.75 to \$20 for long runs and \$19.50 to \$19.75 for short runs. Sows, \$17.50 to \$18.25; stags, \$16.50 to \$17.25 cwt., all weighed off cars.

Calves, grass-fed, \$7 to \$8; and milk-fed, \$12.50 to \$15.50 cwt.

### GRAIN QUOTATIONS.

**Toronto, March 8.**—Ex. cattle, choice, \$12 to \$12.25 export bulls, \$9 to \$10; butcher cattle, choice, 10.50 to \$11.25; butcher cattle, medium, \$9.25 to \$9.75; butcher cattle, common, \$8.50 to \$9.75; butcher cows, medium, \$7.25 to \$8.00; butcher cows, can., \$5.75 to \$5.85; butcher bulls, \$7.25 to \$8.25; feeding steers, \$8.50 to \$9.75; stockers, choice, \$8 to \$8.75; stockers, light, \$7 to \$7.50; milkers, choice, \$8.50 to \$12.50; springers, \$8.50 to \$12.50; sheep, \$13.50 to \$14.50; bucks, culls, \$7.50 to \$10; lambs, \$18 to \$19; hogs, fed and watered, \$19.75; hogs, l.o.b., \$18.75; calves, \$15 to \$17.

**Chicago, March 8.**—Cattle, receipts 11,000. Market weak. Beves, \$8.75 to \$14.15; stockers and feeders, \$7.50 to \$10.80; cows and heifers, \$6.85 to \$11.85; calves, \$8.75 to \$14.25.

Hogs, receipts \$56,000. Market slow. Light, \$16.20 to \$16.90; mixed, \$16.15 to \$16.85; heavy, \$15.70 to \$16.55; rough, \$15.70 to \$16.90; pigs, \$12.75 to \$13.25; bulk of sales, \$13.25 to \$15.75.

Sheep, receipts 15,000. Market firm. Wethers, \$10.25 to \$12.40; lambs, native, \$14 to \$17.50.

**New York, March 8.**—Beoves—Receipts, 2,870 head; market steady; steers, \$11 to \$14; bulls, \$7 to \$11.75; cows, \$4.60 to \$10.25.

Calves—Receipts, 1,600 head; market lower; veals, \$14 to \$18; toms, \$18.50; culls, \$10 to \$13; heavy calves, \$7 to \$9; yearlings, \$6 to \$7.

Sheep and Lambs—Receipts, 2,940 head; market firm; sheep, \$8 to \$12; lambs, \$15.50 to \$18; yearlings, \$14 to \$14.50.

Hogs—Receipts, 8,370 head; market steady at \$17.75 to \$18; pigs, \$17.25 to \$17.75; roughs, \$16.50.

**Buffalo, N.Y., March 8.**—Primb steers, \$13.55 to \$14; shipping

## White Corn Flour—Market steady.

White Corn Flour—Market steady; \$6.95 per 100 lbs. Barley Flour—Market steady; \$13 to \$14 in 95 lb. sacks. Corn Meal—Market firm; yellow granulated, \$5.15; white granulated, \$5.90 in 100 lb. sacks. Rye—Market unsettled; No. 2 Western, \$2.50 nominal f.o.b. New York. Barley—Market steady; feeding, \$1.90 to \$2.00, and malting, \$2 to \$2.30 cost and freight New York. Corn—Spot market steady; kiln dried, No. 2 yellow, \$2.14 1/2; No. 3 yellow, \$1.94 1/2; No. 3 white, \$2.26 1/2; cost and freight New York prompt shipment; Argentine \$2.25 f.o.b. cars. Oats—Spot market quiet; natural \$1.05 to \$1.06.

## Chicago, March 8.

Chicago, March 8.—Corn—Nos. 2 and 3 yellow, market nominal; No. 4 yellow, \$1.60 to \$1.65. Oats—No. 2 white, 92 1/2% to 92 1/2%; standard, 92 1/2% to 92 3/4%. Barley—No. 2, \$2.77. Timothy—\$5.00 to \$8.00. Clover—\$25.00 to \$31.00. Lard—\$26.40. Hides—\$24.75. Pork—Market nominal.

**Winnipeg, March 8.**—Oats—No. 3 C.W., 97 1/2%; No. 3 C.W., 94 1/2%; extra No. 1 feed, 93 1/2%; No. 1 feed, 90 1/2%; No. 2 feed, 86 1/2%. Barley—No. 3 C.W., \$1.76 1/2; No. 4, \$1.71 1/2; rejected, \$1.44; feed, \$1.42. Flax—No. 1 N.W.C., \$3.72 1/2; No. 2 C.W., \$3.68; No. 3 C.W., \$3.50.

**GENERAL TRADE.**

**Butter.**  
Belleville, 50c per lb.; Port Hope, 45c; and Woodstock, 45c to 50c per lb.

**Eggs.**  
Belleville, 60c to 65c per doz.; Port Hope, 50c; and at Woodstock, 45c to 60c per dozen.

**Chickens.**  
Belleville, 25c to 30c per lb.; Port Hope, 27c; and Woodstock, 28c per lb.

**Wheat.**  
Belleville, \$2.10 to \$2.15; Port Hope, \$2.12; and Woodstock, \$2.12 per bushel.

**Oats.**  
Belleville, 95c to \$1 per bushel; Port Hope, \$1.02; and Woodstock, 95c per bushel.

**Barley.**  
Belleville, \$1.25, and Port Hope, \$1.65 per bushel.

**Hay.**  
Belleville, \$12 to \$13 per ton; Port Hope, \$10.25; and Woodstock, \$15 per ton.

**Potatoes.**  
Belleville, \$1.75 to \$2 per bag;

## Kingston, \$2.25 to \$2.50; Port Hope, \$2; and Woodstock, \$2.25 per bag.

### Seeds at Toronto.

Red clover is \$1 per bushel easier this week, being worth from \$17 to \$21.50 per bushel. Alsike is also 50c easier, being worth from \$10 to \$12 per bushel. Sweet clover has firm up 50c in the week, and is now worth from \$12 to \$14 per bushel, and timothy is steady at \$2 to \$5 per bushel.

### Vegetables at Toronto.

Carrots are worth 40c per bag on the Toronto market, according to Dawson & Elliott, with turnips at 45c; and beets and parsnips, \$1.10 to \$1.15 per bag.

Onions have come down in price, and are worth around \$1.50 per bag.

### Millfeeds at Toronto.

Shorts are quoted at \$40 per ton at Toronto; bran, \$35; and middlings, \$45 to \$46 per ton; and good feed flour \$3.25 per bag.

## The Kingston Market

Kingston, March 9th.

Dairy Products.	
Butter, creamery.	52 58
Butter, rolls, lb.	58
Cheese, lb.	50
Eggs, fresh, doz.	60
Eggs, storage	50
Oleomargarine	37 38
Fish.	
Cod, lb.	10 12 1/2
Eds, lb.	12 1/2
Flounders, lb.	12 1/2
Fillets, lbs	22
Finan Haddie, lb.	18
Hake, lb.	12 1/2
Haddock, fresh, lb.	12 1/2
Hallbut, fresh, lb.	30
Herring, fresh, lb.	10
Kippers, doz.	60
Oysters, qt.	70 1.00
Perch, lb.	12 1/2
Pike, lb.	12 1/2
Rock-fish lb.	12 1/2
Salmon, lb.	25 30
Smelt, lb.	20 30
Tillesh, lb.	12 1/2
Trout, salmon, lb.	18 20
Norway Cod, lb.	70
White fish, lb. (fresh)	18 20
Fruit.	
Apples, doz.	40
Bananas, doz.	25
Dates, lb.	25
Lemons, doz.	40
Oranges, doz.	50 70
Pears, each	10
Grain.	
Barley, bush	1.75
Bran, ton	40.00
Buckwheat, bush.	1.85
Corn meal, cwt.	6.50
Cure, yellow feed bush	2.40

### FINANCIAL MATTERS.

The Brake Company Keeps Up Big Earnings.

New York, March 8.—The New York Air Brake Company has declared a quarterly dividend of five per cent. on its stock, putting the stock on a twenty per cent. annual basis.

The company has been paying dividends for the past fifteen months at the rate of ten per cent. regular and ten per cent. extra.

**Mining Corporation Liberal.**

Toronto, March 8.—No stinginess is indicated by directors of the Mining Corporation of Canada, Cobalt's big producer, in their latest dividend declaration, the first for the year, which is of 12 1/2 cents a share, with a bonus of an equal amount, or 25 cents in all, payable March 15th. Quarterly payments last year were 18 1/2 cents each.

**Rubber Merger Projected.**

Montreal, March 8.—The rumor is heard on the street that the Canadian Consolidated Rubber Company and Ames-Holden, McCready Company. No specific time for this merger is stipulated.

**Disbursement at New Record.**

New York, March 8.—Interest and dividend disbursements this month, according to the Journal of Com-

mercial Notes.

The Monarch Knitting Company, Limited, shows an increase of net profits of approximately thirty-nine per cent. for the year ending November 30th.

Directors of the Great Lakes Towing Company to-day declared a dividend of five per cent. on the common stock for the ensuing year.

Baldwin Locomotive Works in 1917 earned \$34.53 a share on common stock against \$6.10 in 1916, highest on record.

United Cigar Stores in 1917 earned \$9.41 on the common stock as against \$10.09 in 1916.

The Dominion Steel Corporation in 1914 showed a favorable balance sheet, which reached \$175,642,756, a profit and loss account of \$2,350,220. On March 31st, 1917, the balance was \$7,596,893.

Forecasts for record-breaking earnings for Penmans, Limited, are well borne out by the financial statement for 1917, which shows, as compared with 1916, an increase of \$270,963, or about thirty-one per cent. in net profits from operation, and an increase of \$176,765, or about twenty-four per cent. in the balance after writing off the bond interest.

new high record. This compares with \$8174,758,666 in March a year ago.

One hundred and seventy-three corporations will distribute in the aggregate the sum of \$99,162,736, a decrease of \$2,795,929.

THE STANDARD BANK OF CANADA HEAD OFFICE - TORONTO

Money Orders and Drafts are issued by this Bank payable in all parts of the world.

KINGSTON BRANCH, J. F. ROWLAND, Manager.

As Age Advances the Liver Requires occasional slight stimulation. CARTER'S LITTLE LIVER PILLS correct CONSTIPATION.

Colorless or Pale Faces usually indicate the absence of Free Iron in the blood, which will be greatly helped by Carter's Iron Pills.

OVERCOATS Large Stock to Choose From. \$15 to \$28 JOHN TWEDELL

According to Schwab the Bethlehem Steel profits this year will be cut badly.

No man was ever so much in love that it interfered with his appetite.