# Investigation by the Provincial Department of Agriculture.

The Ontario Department of Agriculture | solve in a few hours, and every gallon is a matter of extreme importance.

single year in all the time the Provin- "stock" mixtures must never be brought cial Department of Agriculture have together. Pour 3 gallons of the bluebeen collecting information concerning stone solution into a 40-gallon barrel (an the acreages annually devoted to farm ordinary barrel holds between 40 and 50 area planted to potatoes in this province ad-1 21/2 gallons of the lime solution, has decreased by 50,000 acres; the pro- fill up with water, stir thoroughly and duct by approximately 6,000,000 bush- the mixture is ready for use. els. Present indications are that the For applying, a spray pump will be crop of 1907 will be lighter than last found economical of labor and materyear's with the high prices that have lals, and the gain in product from one ruled for some time strongly maintained. | year's spraying of one acre of potatoes Farmers, on the right kind of soil, who will usually pay the entire cost of such have planted a good acreage to this crop an appliance, but if none is at hand, this spring, will, if they are able to suc- Bordeaux may be applied after the same cessfully bring their crop to maturity, manner as Paris Green would be applied reap larger returns from potatoes than in solution for bugs. The object is to they could likely derive from any line keep the crop covered with the mixture of farming in which they might engage, during the season in which blight is and it is to point out briefly one or two liable to occur, and while modern spraylittle things that in these days must be ing machinery does this a little better attended to, if potato growing is to be than anything else, there are scores of successfully accomplished, that this farmers in Ontario who are obtaining article has been prepared.

The great cause of failure in potato their disposal. In preparing the mixgrowing in Ontario, yet five dollars or ture where any kind of power sprayers even less, will cover the entire cost for are to be used, always strain the lime material and labor required to treat one sclution when mixing with the blueacre of polaloes with Bordeaux Mix- stone. The lime sometimes slakes ture, and this mixture properly made lumpy and clogs in the nozzles. If reand consistently and intelligently ap- quired Paris Green may be applied with plied is a certain preventive of rot. the Bordeaux, adding half a pound of From experiments officially conducted at Paris Green to each barrel of the mix-Guelph, at Ottawa, and at practically lure. every experiment station in the United States, and from the practical experi- and the vines kept covered till Septemence of growers everywhere, Bordeaux ber. Four applications as required, will Mixture has proven the only effective usually accomplish this. Some have got weights, and \$8.75 to \$9 for heavies, remedy for Polato Rot. At Ottawa dur- fairly satisfactory results from one good farmers' lots. ing the past three years, the average in- spraying just at the time the disease becrease in yield from spraying with this mixture was 94.5 bushels per acre.

Bordeaux Mixture for polato spraying is made from the following formula: Copper sulphate (bluestone or blue at least four times. vitriol) 6 rounds, unslaked lime

pounds, water 40 to 50 gallons. lime and copper at the time of mixing apply, and where properly made and and quite impracticable to keep a sup- thoroughly applied is certain to be effecply of ready-mixed Bordeaux on hand, live. The only precautions to observe in stock solutions of the copper and lime making are to use pure fresh materials are usually prepared ready for mixing and mix these in correct proportions as required. To prepare material suffi- and in the proper way, and in applying cient to treat one acre of potatoes four times, proceed as follows: Place 72 the season that blight is likely to appounds of bluestone in a bag or basket pear. and suspend it near the surface in 36 Parliament Buildings, Toronto, June, gallons of water in a barrel. It will dis-

is making an investigation into the afterwards dipped from this barrel will potato industry of the Province by Mr. contain exactly 2 pounds of bluestone. H B. Smith, B.S.A. After visiting the For the lime stock mixture take 60 most important potato-growing sections pounds of fresh unslaked lime and 30 of Ontario, he is preparing a special re- gallons of water. Slake the lime by the port for publication. Pending the free use of as little of the water as possible, report, which will probably show a and when all is broken down, bring the more serious state of affairs than is solution to standard strength by adding generally supposed, the following re- what remains of the 30 gallons of water. commendations are put out with a Every gallon of lime mixture now conview to impressing upon farmers the lains exactly 2 pounds of lime. These necessity of immediate action. The mixtures, if kept under cover and evatreatment of potatoes to prevent the rot poration prevented, will retain their

"Ontario produced fewer potatoes in In making the Bordeaux it is impor-1906 than she ever produced in any tant to remember that these strong crops. Within the past few years the gallons), half fill the barrel with water,

quite satisfactory results from applying Inability to cope with the rot has been the Bordeaux by whatever means are at

Spraying should begin about July 15th gins to spread, and as we gain in spray- rel; mess, \$21 to \$21.50. ing experience, the number of applica-

As it is inconvenient to weigh the blight. It is easy to make and easy to smoked. to keep the mixture on the vines during

1907.

# FIVE MEN KILLED.

# Special.

A despatch from Winnipeg says: No. | A despatch from Winnipeg says: A men. The cause of the wreck was a oals and barley. misunderslood order. The injured have

# 200 DIE IN HURRICANE.

been taken to Fort William.

### Immense Waves Devastate Many Parts of the Carolines.

A despatch from Sydney, N.S.W., says: The German steamer Germanic, which has arrived here, reports a hurricane, accompanied by immense waves, which swept the Caroline group. Many islands were devastated, and it is estimated that at least two hundred natives perished.

# BREAD IN SEALED BAGS.

### Direct From Baker to Consumer is Idea of Winnipeg Controller.

A despatch from Winnipeg says: Encased in a sealed oiled paper bag and direct from the baker to consumer, without handling by delivery boys or storekeepers, is the way Controller J W. Baker would like to see loaves of bread delivered to consumers in Winnipeg. He is now bringing the matter before the health authorities, and a move along this line may be expected Member of Dominion Observatory Staff in the near future.

# CANADA AND SOUTH AFRICA.

### Trade Between Two Countries to be Developed.

A despatch from London says: Sir A. Jones, referring to his grant of free present the comet can be seen through out. Dempster Company would do all they brightness till September, when it will legiance, the total of 10,242 for last year, an increase of 4,687 or 36 per Egypt, the sum of \$250,000 in recogn could to develop it.

# strength all summer.

# FALLING OFF IN WHEAT AREA.

### C. P. R. Express Dashes Into a Chinese | The Manitoba Department Issues a Crop Bulletin.

97, regular west-bound C. P. R. express, bulletin dealing with the condition of and a Chinese special going east, col- crcps, live stock, etc., in Manitoba was lided at Butler, 275 miles east of here, issued on Thursday morning by the shortly after 5 o'clock on Friday after- local Department of Agriculture and death of five Chinamen on board the indicate promising conditions in every \$7.25. special and the serious injury of N. E. section of the province. A falling off is O'Connor, of St. John, N. B., a guard reported in the acreage of wheat, but a on the special, and a number of China- substantial increase in the acreage of

The wheat acreage reported in last year's June bulletin was 3,141,537 acres, against 2,789,553 acres this year.

Last year there were 1,155,961 acres of ships 11%c, Quebec 11%c. oats, this year 1,213,596 acres.

The barley acreage last year was 649,570 acres.

number of milch cows:

As to live stock, the figures show the cattle fattened during the winter and the

Cattle Milch

, District—	fattened.	cows.
South-western	10,058	25,654
North-western	5,946	2,872
North Central	5,542	22,918
South Central	3,385	17,197
Eastern	3,213	20,001
Totals	28,142	114,642
The employment and f	arm labo	r prob-
lem is shown thus:		

Farm hands employed ...... 18,501

Farm hands required ...... 24,583

Female servants employed ...... 4,619

Female servants required ...... 5,162

A NEW COMET.

Makes Discovery. A despatch from Ottawa says: Mr. J. S. Plaskett, who has charge of the big totalled 10,242, as compared with 6,632 | the American male settlers in the West telescope of the Dominion Observatory, for the previous year, an increase of are taking the oath of allegiance to the be nearest the sun.

# HINTS ON POTATO GROWING LEADING MARKETS THE PERILS OF LABOR

### BREADSTUFFS.

Toronto, July 2 .- Call board quotations are :-

Wheat-Ontario-No. 2 white, 911/2c asked, outside, 89c bid. No. 2 red, 89c bid, outside, 891/2c bid west; No. 2 mixed, 91c asked.

Barley-No. 2, 53c bid, 48c bid for one load, September or October shipment; No. 3 extra, 48c bid, October shipment; No 3, 50c bid.

Peas-No. 2, 81c asked, outside. 45%c asked on a 6-cent rate to Toronto; 44%c bid.

Other prices are :-

white winter, 88c to 89c; No. 2 red or No. 2 mixed, 88c to 89c. Wheat - Manitoba-Lake ports, No. 1 hard, 95c; No. 1 northern, 951/2c; No. 2

Wheat-Ontario-Unchanged; No.

northern, 91c. Oats-No. 2 white, 441/2 to 451/2c, outside; Manitoba, 45c to 45 1/2c, outside.

Corn-No. 2 yellow American, 60 1/2c to Barley-Nominal; No. 2, 531/2c to

54½c; No. 2 extra, 51½c to 53½c. Peas-No. 2, 771/2c to 781/2c. Rye-70c. Buckwheat—60c.

Flour-Ontario, 90 per cent patents, offered at \$3.55; Manitoba first patents, \$4.75; seconds, \$4.15 to \$4.20; bakers', te: firm; No. 2 white, \$1.02. Corn -\$4.75.

Bran-\$18 to \$19.

### COUNTRY PRODUCE.

Butter-Pr	rices show no further change.
[44_1] [44] [44] [44] [44] [44] [44] [44] [4	rints 20c to 22c
do solids	19c to 00c
Dairy, print	ls 17c to 18c
	17c to 00c
Cheese—12	23/c for large and 13c for
twins, in jo	b lots here.
Eggs-17c	to 18c per dozen in case

Beans-\$1.50 to \$1.55 for hand-ricked

and \$1.35 to \$1.40 for primes. Polatoes—Delawares, \$1.30 to \$1.35, in car lots on track here. Ontario, \$1.10 to

Baled Hay—\$14 to \$15 for No. 1 timothy and \$12.50 to \$13.50 for secondary

Baled Straw-\$7 to \$7.25 per ton in car lots on track here.

### PROVISIONS.

Dressed Hogs-Easy at \$9.50 for light-

Smoked and Dry Salted Meats-Long tion may perhaps be decreased, but clear bacon, 11c to 111/2c for tons and ordinarily, it is best to use the mixture cases; hams, medium and light, 151/2c to 16c; heavy, 14½c to 15c; backs, 16½c at 3c to 6c per 1b. Bordeaux is the only effective remedy to 17c; shoulders, 10% to 11c; rolls, yet devised for the control of potato 111/2c; out of pickle, 1c less than \$5.25, and lambs from 8c to 9c per tb.

> Lard-Steady at these prices: Tierces, 121/4c; lubs, 121/2c; pails, 123/4c.

# MONTREAL MARKETS.

Montreal, July 2.—Rolled Oats—From \$2.25 to  $$2.27\frac{1}{2}$  per bag. In a jobbing way \$2.30 is asked.

local market. Holders are asking 49c to 491/2c per bushel for No. 2 white Manitobas, 481/2c to 49c for No. 2 Ontarios, 471/2c to 48c for No. 3, and 46c lo 47c for No. 4.

There is a good demand for all lines of millfeed, and bran and shorts are firm at unchanged quotations. Domestic trade is responsible, for the

bulk of the business that is passing in haled hay and prices are steady. Provision Market-There was only a

fair demand and prices dropped 15c to 25c per hundredweight, with sales f noon. The accident resulted in the Immigration. Reports of correspondents select lots weighed off cars at \$7 to Cheese and Butter-Cheese experienc-

ed a decline this morning. In the butter market prices were unchanged. Townships 20% to 21c, Quebec 20% c to 26/2c, Ontario, 20c, Ontario dairy 17/2c to 18c. The cheese market prices dropped to Ontario 11%c to 11%c, town-Eggs-Prices were 161/2c wholesale

lets and 181/2c to 19c small lots.

# No Less Than or Fatalities Reported During May.

perts to the Labor Department show ported to the department was consider-Oats—No. 2 while, 46c asked, outside; that the number of trade disputes during May was 49, an increase of twelve since 1903. Nearly all the new agreeover the corresponding month of 1906. ments were on the basis of higher wage The loss in working days was approxi- schedules. In the majority of cases the mately 88,325 as compared with 45,675 increases were obtained as a result of in May of last year. The increase is amicable negotiations and without largely due to the strike of coal miners | friction between employers and emin the west, and of longshoremen in ployees. Montreal. There were about 411 firms | During May there were 287 work peovarious disputes.

A despatch from Otlawa says: Re- | agreements with respect to wages reresponding period in any previous year

and 11,697 employees affected by the ple injured in industrial accidents. Of these 91 were fatal and 196 resulted in There was a marked upward tendency serious injuries. Railway accidents in wages in nearly all lines of industry were responsible for twenty fatalities during the month. The number of new and thirty by them were injured.

### BUFFALO MARKET.

Buffalo, July 2.-Flour-Quiet. Wheat | Lieut.-Governor Among Recipients of -Spring strong; No. 1 hard, \$1.03; Win-Frm; No. 2 yellow, 571/2c; No. 2 white, white, 48%c; No. 2 mixed, 45%c. Bar- lowing:ley—Quiet; Western offered 78 to 85c. Rye-Scarce and strong; No. 1, 91c | Major-General, Canada. asked c.i.f.

### NEW YORK WHEAT MARKET.

New York, July 2.—Wheat—Spot firm: No. 2 red, 971/sc in elevator and \$1.001/s f.o.b. afloat; No. 1 northern Duluth, \$1.03% f.o.b. affoat; No. 2 hard winter, \$1.021/4 f.o.b. afloat.

### CATTLE MARKET.

Toronto, July 2.- Export trade con- Griffin. tinued quiet. Very few cattle were of- Knight Bachelor - Licut.-Governor fering, and the demand was only mid- William Mortimer Clark and M. F. C. dling. Quotations were easier, choice S. Langelier and Mr. Robert Gillespie selling from \$5.60 to \$5.75. Medium Reid (in recognition of services to Newgrades are dull.

were the features of the day's trading Earl Dundonald and Sir T. G. Shaughin butcher cattle. Extra choice sold nessy. from \$5.25 to \$5.50. Medium quality were unchanged at \$4.50 to \$4.75. manded the Canadian local forces with Choice cows sold from \$3.50 to \$4.15; the local rank of Major-General from common cows, \$3 to \$3.25.

reported a good demand for good qua- in command of the colonial troops. Pork—Short cut, \$22.75 to \$23 per bar- lity. Choice were quoted from \$3.75 to \$4; common from \$2.50 to \$3.

Milch cows were dull at \$30 to \$50 for choice and \$20 to \$25 for common. Veal calves were quiet and unchanged

Export ewes were quoted from \$5 to lower levels.

# STEAMER BURNED.

# Engine-room.

Peint, fifty miles west of the "Soo," on the Canadian side. At ten o'clock fire was discovered in the engine-room, due it is said to the explosion of a lamp. The flames made rapid progress, comexit, leaving the engines in operation. The vessel was immediately turned to the shore one mile away and beached, the crew of fifteen men, under Capt. A sensation was caused on Wednesday James Ganley, all being landed safely. at the inquest at Cole's Island into the They reached the "Soo" on Thursday burning of the Crystal Stream, in which morning on the tug Shamrock none the four men lost their lives, by the testiworse for the incident. The Batchewana mony of Mrs. May Coleman, cook on the carried a cargo of iron ore from the steamer. She said she was in fear of Helen Mine for the Algoma Iron Works fire, and this was chiefly because Mrs. at the "Soo." The boat was partly in- Chase, the stewardess, had told her vensured, but the Ganley Line will lose geance against the Crystal Stream had heavily on the disaster.

# IT IS SIR MORTIMER.

King's Birthday Honors.

A despatch from London says: The-Oats-Unsettled, weak; No. 2 King's birthday honors include the fol-Baronelcy-Col. Ivor Herbert, ex-

Knighthood-Mr. Nathanial Dunlop, Chairman of the Allan Line.

Order of St. Michael and St. George-Grand Cross-Sir William MacGregor, Gevernor of Newfoundland. Knight Commander — Hon. Charles-

Fitzpatrick. Companions — Mr. James Slewart Pitts, Newfoundland; Captain R. H. Anstruther, Royal Navy; Mr. Alfred Duclos Decelles and Mr. Martin Joseph

foundland).

Light offerings and a better demand | Victorian Order Knight Commander-

Sir Ivor John Herbert Bart com-1890 to 1895. At Queen Victoria's Buyers of stockers and feeder cattle jubilee commemoration in 1897 he was

# CHARGED WITH MURDER.

### Henry Lockyer Committed for Trial at Stratford.

A despatch from Stratford says: Henry The market for hogs was easy, as a Lockyer, who in a fight here some result of heavy deliveries, but no further weeks ago struck the blow which the declines were registered. Buyers quot- Coroner's jury found caused the death ed selects at \$6.75, with prospects for of Noah Hills, was brought before Police Magistrate O'Loane on Friday. Medical and other evidence, which was practically the same as that given before the Coroner's inquest, was heard, and the A fair trade is passing in oats on the Explosion of Lamp Started Fire in | Magistrate sent the prisoner for trial on the charge of murder. Counsel for the defence tried to have the charge A despatch from Sault Ste. Marie says: changed to manslaughter, but the court The steamer Batchewana, of the Ganley held that the jury might if they wished Tug Line, was totally destroyed on Wed- make a change in the charge. The nesday night in one of the first marine trial will likely take place at the Fall disasters of the season at Copper Mine Assizes in September. Bail was refused,

# STARTLING EVIDENCE.

# pelling the engineers to make a hurried | Cook of the Crystal Stream in Fear of

A despatch from St. John, N.B., says: been threatened, if it took ten years. She thought Captain G. H. Perry of the steamer Aberdeen, who formerly was on the Crystal Stream, was the man meant as having threatened the steamer. Captain Perry was shown this statement on the arrival of his steamer here on Wednesday, and he denied it strongly. He imputed a motive to Mrs. Coleman, saying he was influential in having her dis charged from the steamer Star some years ago.

# PICKPOCKET'S HAUL.

### Thousand Dollars Stolen in Winning Building.

A despatch from Winnipeg says A despatch from Ottawa says: The re- migration of thirty to forly thousand. Pickpockets are busy here, and numer ous thefts are reported. J. J. Miller, at of Hamilton building on Wednesda The total naturalizations of immi- afternoon just after he had cashed to

# GRATUITY TO LORD CROMER.

# With \$250,000.

A despatch from London says: It i tion of his services in that country.

### Shown in Natural-Increase Marked ization Statistics.

1906 have been tabulated by the Secretary of State's Department, and show become naturalized by law. that a very large proportion of Canada's new citizens from foreign coun- grants from United States were 3,888, draft. tries are taking the oath of allegiance. which, compared with the immigration

a few days ago discovered a bright 5,610. The Naturalization Act requires British Crown. comet which is approaching the sun three years residence in the Dominion | The total immigration for the month | British Government to Present His

year probably represents a few im last

turns of naturalization in Canada for And since three years' residence is required it will be seen that almost the Iewa speculator, was relieved of a thou whole foreign immigration of 1903 has sand dollars in the elevator in the Bank

During the year the naturalization ligures of 1902-03, show that nearly all

and is daily growing more brilliant. At before papers of citizenship can be taken of April was 44,051, as compared with 35,313 for April of last year, an increase passage to commercial travellers be- an opera glass in the early morning, Taking into consideration the fact of 25 per cent. For the ten months, tween Canada and South Africa, says towards the southeast, and in a few that only the heads of families and July 1 to April 30, the immigration was stated that the Government will awar there should be an enormous trade be- weeks will probably be visible to the young men over 21 years of age of for- 163,718, compared with 124,031 for the Lord Cromer, who lately resigned he tween the two countries. The Elder- naked eye. The comet will increase in eign birth need to take the oath of al- corresponding months of the fiscal post of British and Consul-General i