The Ontario Agricultural Gazette

The Official Bulletin of the Dominion Cattle, Sheep, and Swine Breeders' Associations, and of the Farmers' Institute System of the Province of Ontario.

NOTES ON THE AGRICULTURAL COL- uary, and continues its work for twelve LEGE. GUELPH.

The interest of the farming community in the college at Guelph seems to grow from year to year. Over 30,oco people, from different parts of the on excursions run by Farmers' Instiwere outspoken in their praise of the treatment which they received, and of the work done at the college. And the peculiar thing about these excursions is that the same people go from work and life on the farm.

STUDENTS IN ATTENDANCE.

There is no doubt that of late years there has been a marked increase of confidence in the work of the college. The attendance of students in 1897-98 was considerably larger than at any time in the past. Every room was occupied, and about thirty had to lodge outside during part of the year and the there is much to interest farmers, fruit in consequence, needs a superior per-character of the students has improved. growers, market gardeners, and florists son to attend her and supply her The great majority of those now in attendance are farmers' sons of the best type.

THE FARM.

They have all they need right there on flowers, and trees, their own farms. The farm has at length become a source of strength to the college.

THE EXPERIMENTAL DEPARTMENT.

This department has grown and developed till it has become one of the most extensive and useful stations on the continent, especially in the line of field experiments. The results of the work of this department, published from year to year in the annual reports of the college, are of inestimable value to the farmers of Ontario. It is a matter of great importance to farmers to know which are the best varieties of grain to sow, and to have the latest and most reliable information as to the selection of seed, dates of seeding, methods of cultivation, mixtures of clovers and grasses, the growing of green fodders, the feeding of animals, and other matters which bear directly upon their work throughout the year.

And the co-operative tests, made at over 2,000 different places throughout the province, chiefly by the students and ex students of the college, under the direction of the college experimentalist, check the results obtained at the college, and add greatly to the value of the work done by the institu-

THE DAIRY SCHOOL.

the college opens on the 4th of Jan- ordinary institution.

students in this special three months' course, most of them now employed farming community and indirectly for is equal to good ripe cheddar cheese? In the cheese and butter factories of other classes.

The more brain power put into the Ontario During the remaining nine months of the year two men of the province, visited the college in the months of the year two men of the month of June. These visitors went department devote their time to experimental work -one in cheese and tutes, and the great majority of them the other in butter endeavoring to solve problems which arise in the factories and creameries of the province; and one point especially should be noticed, that is, that any man or woman, boy or girl, can go at any time of year to year and always seem welt the year to the Home Dairy Departpleased with their visit—always learn ment and receive instruction in buttersomething, and return better fitted for making free of charge no examination and working. The dairy industry, to pass, no fee to pay. They have simply to go and stay as long as they wish-three days, a week, or a longer could be offered to those who wish to son who deals with vegetable life and increase their knowledge of this important branch of agriculture?

THE HORTICULTURAL DUPARIMENT.

-- five or six greenhouses furnishing plants and flowers for lectures and able plantation of small fruits, a large hot sun, flies, scanty food, or gives her The farm proper is in a much better vegetable garden, a beautifully arcured treatment, fails in the essentials conditionthanit was in days gone by. It ranged arboretum, and several very in- of successful treatment of the dairy is no longer necessary to refer students, teresting clumps of forest trees; and a cowto the United States, Great Britain or considerable amount of experimental of what is taught in the class-room, especially in testing varieties of fruit,

BACTERIOLOGY.

Under this head the college is inknown by the general name of bacteria; it is likewise investigating the question ing tuberculin, or the substance which is used to test animals for tuberculosis. This substance is sent free to farmers is given to farmers without charge on condition that they report the results of their tests confidentially to the colformation of the department.

POULIRY.

In the poultry department, also, we find much to interest farmers -a complete set of houses with suitable yards, most cleanly and orderly condition. coops, drinking fountains, etc., twentyfive odd varieties of hens, of lifteen or

Add to all this the special college equipment, not only the ordinary school-room appliances, but well-equipped laboratories for practical work in chemistry, physics, biology, bacterio-

A DAIRY EDUCATION.

By H. H. DRAN, Professor of Dany Husbandry, O.A.C., Guelph, Oht.

last experience proces, in every soil, That those who think will govern those who toil."

The world to-day needs thinkers as well as workers. Some are content to work, and allow others to do the thinking for them. Some think, and compel others to do the work. In Canada we need those who combine thinking especially, needs such persons. He or she who deals with animal life and animal products needs a more liberal What more liberal terms education and more skill than the perproducts. The lower form of life is utilized to sustain the higher. The dairy cow is a highly organized form of animal lite. She is also a form of arti-In the Horticultural Department ficial animal life, made so by man, and, wants. longer consistent with her acquired practical work in botany and horticul- habits. The cowherd who exposes his ture, a good-sized orchard, a consider- charge to snow, sleet, and cold rain,

Germany for object lessons illustrative work is being done in the department, great strides have been made in recent dairying, and the books are for the years. The selling of milk in "six free use of stuc nts. In addition, all penny" or "shilling" crocks has been, the leading agricultural and dairy jour-superseded by the modern creamer, nals are kept in the reading-room. A structing its students in the life history skill and forethought, but if these are wish to be especially well up in the and characteristics of some of the in- lacking the modern methods become business numerable foes of man and beast a hindrance rather than a help to the dairyman.

The markets of the world are more of the finest quality will pay for export-

The farm dairy also requires a cersixteen breeds; and four or five hun-that the creamery system of butterdred chickens, which will be in good making will soon become as general as some time to come there will be con-

The general verdict is that the col- family jolts and jars. As a lubricator weeks. Last session there were 110 lege is a credit to the province and is of the brain nothing equals fine cream doing excellent work, directly for the and butter. As a muscle builder, what

> manufacture of good butter and cheese the more brain power will be produced in the world. The more milk, cheese and butter consumed by all classes the more energy and muscle will there be to expend upon the world's progress. For the production of energy to do work, nothing equals the products of the dairy for economy.

> In order that readers may have the information most generally asked for in reference to the dairy school in connection with the Ontario Agricultural College, where a dairy education is given to all who attend and apply themselves, a few of the more com-monly asked questions are appended, together with their answers.

> Q. When does the next course open?

> A. Jan. 4th, 1899, and it will continue twelve weeks.

Q. What does it cost to take a full dairy course?

A. Your railway fare to and from Natural conditions are no Guelph. Board at \$2.50 to \$3 per week; two suits of white clothes, \$2.50; laundry, \$2; incidental expenses, \$5. l'otal, \$40 to \$50, not including railway fare.

Q. What books are required?

A. A note book for taking down lectures and discussions. The dairy In the handling of cow products library contains all the litest works on and this again by the cream separator, few of the best works on dairying Each step in advance requires more should be purchased by students who

Q. What benefit will it be to take a dairy course?

A. If you are a cheesemaker, you of foul brood in bees, and manufactur- exacting each year. None but goods will pick up many useful hints on your work, as the instructors are the best ing, and the home markets are each practical men available. The instrucyear more critical. More intelligent tion in milk-testing is very helpful, to test their own cattle; and to others and more skilful makers of dairy goods while a knowledge of buttermaking is who want it at ten cents per dose. It are asked for now than formerly. In an essential part of a cheesemaker's addition to being able to make good training in these days of winter creambutter and cheese, men who manage eries in cheese factories. If you are a factories are supposed to be able to buttermaker, you will receive instruclege bacteriologist for the private in make out invoices of goods shipped, tion in the running of the leading to keep accounts, to figure fat due cream separators, pasteurization of patrons from weight of milk and milk and cream, making starters, test, to test milk, cream, etc., with the ripening cream, churning and preparvarious testers, and above all to keep ing butter for export and local markets. things in and around the factory in the If you are making butter in the home dairy, you will receive lessons in setting and skimming milk, operating tam amount of attention. We all trust hand cream-separators, churning and printing butter. A week or more could be profitably spent by many shape for sale in October or Novem- the cheese factory system, but for farmers' wives and daughters. A lady instructor gives special attention to siderable butter made in private ladies. The lectures on poultry are dairies. These home dairy products valuable to the home dairy student. should be of the finest quality, especi- If you are simply going to farm, and ally for the farmer's table. Good never expect to make any cheese or butter supplies the oil which makes butter yourself, the course will broaden The Dairy School in connection with logy, horticulture, etc., and we have no the family carriage run smoothly, while your views. The lectures on feeding, but college opens on the 4th of Jan- ordinary institution.