22 france (18 shillings) the 1 000 kilos north Belgium, they cometimes put (about 2 200 lbs), when the contained 12 per cent. This year, sugar being cheaper, it is supposed that those farmers who have no contract with the factories will not get more than 15

The high-roads are kept in order, by a tax, by a road-master acting on be half of the commune.

MB. OSCAR BOLLE, Chief Clerk in the Ministry of Agriculture, Brussels Bolgium:

In 1985, Belgium sent to Denmark and France several boys and girls to study dairying. Some of the girls went to the dairy school at Coetlogon. near Rennes, others attended the Fri-bourg school, Switzerland; the lads sent to carry on these studies had received diplomas as agricultural engineers.

Belgium possesses dairy-schools for girls, where there are specially taught the mode of making the different sorts of soft and firm cheese. In this country, the home manufacture of cheese is the peculiar business of the wife.

Nine state agronomes and 10 assist ants are employed to give information on all agricultural matters to the farmors; they deliver lectures at the farmors' meeting and at the agricul tural comitia (comices. Each comitium has to have one or two small experi ment fields, of about 20 acres each; it selects a farmer who agrees to cultivate these fields, but it is the duty of the agronome to point our the experiments that are to be conducted there.

The state supplies the farmer with the seed and chemical manures need ed for the experiments; the farmer, having done the work and furnished the dung, remains proprietor of the

Belgium is divided into provinces and in each of them, the state has established experiment gardens.

Every State agronome receives an nually 3 500 francs (£140), in addition to his travelling expenses. He has to make an annual report of the results obtained on each experi ment field.

During the last few years, the value of farm property has diminished by 20 %.

From time to time, the government publishes bulletins indicating the best methods of agriculture; one of them, published lately, treats of the management of manure; it advises the farmer to keep the dung moist and well tramped, to keep it away from the drip of the eaves, and to regulate the fermentation carefully.

During winter, the dung is usually

carted away, and put in large heaps, the officers of some of them are ener-carefully made, laid on a bed of clay getic and earnest, and do their best and covered with the same. The beau ideal of the system is to have the dung thoroughly rotten and to preserve every drop of the urine.

In same parts of Rolgium, the manure is allowed to accumulate under the cattle, but in this case lots of straw is used for litter.

Barley, wheat, ryo and winter-barley (épéautre) may be sown in the fall. On the permanent meadows, especially on those that are sour, lime and phosphoric acid, in the form of basic-slag, are used for the purpose of adding their fertilizing properties and destroying weeds. The meadows and pastures are manured with urino and carthy composts; these latter are prepared with time.

In March, both mesdows and pa ures are lightly harrowed and rolled: harrowing favours the tillering of the of some of the schools of domestic of the grasses and destroys the moss. In economy of the farm-house among tions.

on the meadows a ton of basic-slag and half a ton of kainit (potash), to which are perhaps added from 380 to 440 lbs. of nitrate of soda (to the hectare?) The larhyrus sylvestris (wood vetch) has yielded well on some light lands, but it is bitter in taste, and many animals do nor care for it.

The prickly comfrey is not approved of. Crimson clover (trifolium incarnatum) and the hairy vetch mixed with rye, do well here, and are much liked by the stock. In some districts of Belgium, giant spurrey is sown, and is raid to impart a fine flavour to butter.

As soon as the grain crops are harvested, the stubbles are cleared, and a deep furrow is given in the fall

The average yield of milk from each cow is from 9 to 10 kilos (19 to 22 lbs.) a day during the 9 or 10 months they are milked: it takes, on an average, 27 kilos (59½ lbs.) of milk to make a kilo (2.204 lbs.) of

Mr. Proost, professor and inspector general of agriculture:

In the Duchy of Luxembourg, there have been founded, with excellent results, parish agricultural societies. Government has encouraged there the bilding of liquid manure tanks, and this has greatly contributed to the increase of agricultural products. The experiment fields are more or less succe-sfull, according to the management they receive.

Mr. Proost attaches great importance to the labour and lectures of the State agronomes, and contends that these are more beneficial to the farmers than the experiment fields. In one of the e fields it was proved that some sandy coils contained a notable dose of pot a-h. On poor land, the lupine gave good crops: it might be tred in Canada. As cleaning and improving crops, hood crops are to be highly commended, for without them it is difficult to keep a farm in a productive state

Fallows, too, are desirable in many

In rich land, a triennial rotation is: 1, beets; 2, clover; 3, wheat; or, 1, clover; 2, wheat; 3, cats; 4, potatoes. As a rule, the dung is not under cover, is kept away from the eaves and the urine is carefully preserved. On moist meadows kainst and basic-slag answer well.

Liquid manure always produces ex cellent results on clay meadows, but these should receive dressings of lime occasionally. M Proost strongly recommends the attentive control of the work of agricultural cocieties, if we wish to reap much benefit from them: the officers of some of them are enerconscientiously, for the improvement of agriculture; but unfortunately, all the officers are not alike.

As to the theory of M. Deherain, about the waste of manure, M. Proos says that it may possibly not be cor-rectly founded; but he is not prepar-ed to give a definite opinion on the

THE ANTWERP (BELGIUM) EXHIBITION.

As an agricultural show, the Antwerp exhibition was far from being complete. Very few agricultural complete. implements were shown, though there were some ploughs, winnowing ma-chines, potato, and beet diggers. The Belgium system of farm instruction was well represented, especially the pieces of work exhibited by the pupils

others the exhibits of three schools kept by the nuns of the country. There were vestments, dresses, and the repairs of clothing done with care and taste. A variety of preserves where shown by these pupils, propared by themselves: marmarlades, apple jelly, plums, etc., in fruit preserves. Most of the utensils used in the dairies of these schools were there as well as these schools were there, as well as grain and seeds gathered by the pupils, and bills of fare for dinners and breakfasts. In these schools are taught accounts, confectionery, laundry work, bread-making, butter and choese making, the utilizing of waste products, and horticulture. There were to be seen photographs of nuns and their pupils in the dairy, in the creamery, the bakery, the laundry and wash-house; peeling vegetables, cooking, and in the fields as well, when the course of zootechnie is being given.

In these schools, too, veterinary subjects and domestic maxims are studied. Among the exhibits the following maxims are placarded.

" One day's mending is better than one year's spinning!

" A house neglected is a house ruin ed. "

" Love a country life; it is the most confucive to morality; it is the guar-dian of the Christian traditions."

One of these schools is kept at Virton, one at Brugelette, under the management of the Sisters of the Infant Jesus.

Each pupil who passes a satisfactory examination receives a certificate of study and of agricultural practical

The dairy industry was hardly represented at all. There were a few utensils for sale, but positively nothing new, except a mechanical butter-worker (delaiteuse), which we should have liked to see in operation, but which was not set to work at the time appointed by our request.

## FRANCE.

M. TISSEBAND, Director of Agriculturo, Paris:

There are co-operative creameries, especially in Normandy. At Coëtlogon, near Rouen, there is a dairy school for girls. The making of Gruyd re cheese is taught at the Poligny re cheese is taught at the roughy chool, in the Jura, and at Mamirolle school. It is proposed, too, to teach the way to make Cheshire cheese. Formerly, 20%, of cheese made in France was of inferior quality, but there has been a great improvement. Pains are being taken to improve the pasture by phosphate of lime; superphosphates are found to answer best on clays.

For this purpose liquid manure is being used, but many farmers lose a great deal by not taking care of it.

More than 400 experiment fields bave been established in France, and for their maintenance the government expends 200,000 frs. (840,000; a year. There are 300 professors of agriculture, whose business is to give lectures to the farmers.

SCHOOLS OF ARTS AND TRADES.

We received the following information at the Ministry of Trade and Industry:

The French government keeps up schools for instruction in clock making weaving, dyeing, and iron and wood working. Many of the former pupils working. of these schools have now good situa-

At Paris, there is a school of shoemaking founded by a trade syndicate, and aided by a grant from the State.

At the Cluses school of clock-mak ing there are usually from 100 to 120 pupils; they study everything connected with clock and electricity. A cortain number of them receive from government an allowance, the maximum of which is 600 francs (\$120.00). At the schools foundries, mill-works and clock-making, the course is 3 years. Some of the pupils attend, at the expense of the government, for 2 years foreign institutions of the same class, and are obliged to make reports to the home government every three months.

VISIT TO THE BOHOOL OF SHORMAKING AT PARIS.

Thirteen pupils are now attending the practical course of this school. They work for Parisian "bosses" (patrons) who pay in proportion to the amount of work and the quality of the shoes, etc., they send in. The the shoes, etc., they send in. The cash received is generally sufficient to pay for their keep, besides, they receive wages from the directors every three months; and these wages are more or less in amount sccording to the application evinced by the pupil and his progress in the trade A theoretical course is given by professors-among whom are to be found the matters of some of the leading shoemakers' shops in Paris. Besides the above pupils, many apprentices, who work outside the school, are allowed to attend the theoretical course.

This course is of 2 years, but many pupils leave before the expiration of that time, having learnt enough to become skilful workmen. The pupils seem perfectly satisfied with the management of this school; one of them, an Algerian, who had attended the course for 5 months and had previously made shoes for 4 years, told us that he had greatly improved there in the art of cutting out and making shoes. There were an Austrian and a Swiss, there; these foreigners were also pre-paring by learning all the details of the trade, to become competent masterworkmen in their own countries, or proprietors able to superintend and direct their own manufactories.

VISIT TO THE AGRICULTURAL INS-TITUTE AT BEAUVAIS, UNDER THE DIRECTION OF THE REVD. BROTHERS OF CHRISTIAN SCHOOLS.

Last year, there were 93 pupils at this institution; the course is one of 3 years. The weaker pup is work on the farm from 1 to 6 o'clock 3 days a week; the strong ones work 3 days a week on the farm. They have to transcribe the theoretical instruction thay receive; board and instruction cost

each pupil \$320 a year.

The cows kept are Bretons, black and white, and small. Yorkshire pigs are kept and the progeny sold as breeders. The grain harvest takes place at the beginning of August. The permanent pastures are so divided that they may be fed in turn for about a fortnight each time.

The food of the cows, in winter, inclades mangels outstraw, lucerne, suin-foin and bran.

The yield of milk is 12 litres (10 quarts I pint imperial) a day, a cow, during seven months; the cows calve at all seasons. A Normandy bull is kept. The dung is not under cover, but in the middle of the yard, so that it gets no drip from the buildings. There is a tank for the urine from the