disheartoned en conte by another spear from Williams. Not yet beat, howover, he stood at bay in the water, turning to face every attack, and meeting his assailant half-way like a true duelist. It was a turn of sharp practice depends principally upon the means of transportation to the scaboard. He now, as one after another rushed by him, maneuvring their horses so as to fears that with the cheap native labor of India, and the constantly growing deliver the spear and yet avoid the charge; but it was a fight that could not facilities for transportation the United States will find her a formidable last. Assailed on every side, bear gradually sank under the repeated thrusts, competitor as a producer of wheat.

Bristling all over with embedded spears, at length the poor brute lay

down fighting to the last, with the dying satisfaction, however, of having left his marks on three houses. A fine 'tusker' he was, measuring 37 inches.

On looking at our horses, I found both my saddle-girths cut, one right patronical, and the benefits that are sure to accurate are incalculable. through, the other nearly, and a long but not deep cut on the horse's near forearm. Williams and Westwood fared worse, Williams' horse having been cut in three places; but, though severely, neither dangerously.

CONCERNING SHETLANDERS.

The Shetland and Orkney Islands belonged to Norway until 1168, when, as history informs us, "They were impledged to James III, of Scotland, as a part of the dowry given with his queen," for about that time he was married to Princess Margaret of Donnark. It is added that "these islands were never redeemed." Shetlanders are a small, active and hardy people. very genial, too, and distinguished, whether rich or poor, for very industrious habits. No less are they noted for intense leve of country.

Much of the farm work is carried on by the women of the household. Vields and gardens are their great delight. They are adopt in clinary lose, and spin, weave and make up stores of household linen and tlannels. less successfully do they cut and make all family clothing, and as well pride themselves upon the number of bags of stockings, thick and warm, which they exhibit to neighbors and friends with intense satisfaction. Turift and thoughtfulness develop many bright touches of ornamentation, but the maidens own wit must devise the outlining, her own dainty touch accomplish the needlework. Shops full of beautiful patterns and gay haed materials are unknown joys in Shetlandom. The flowers of the field and the trees of the wood must furnish not only patterns, but the coloring needed for the wools and threads. Every maiden must be her own purveyor for overy pigment needed.

The great luxury of the peasant women is tea drinking. This article, brought from distant ports, would be beyond their means unless secured by exchange, and is said to be a universal means of payment for little services rendered. An errand involving hours of travel will be cheerfully accomplished for "one drawing" of the yearned for refreshment, and this may be said of many household services. Skillful spinners will gladly "give many turns to the wheel" for a complement of the delicious bevonge.

Sheep are largely a source of trade to farmers of these islands : the mutton is dark in color and of fine flavor, the fleece is soft and of such delicate texture that from it may be spun a thread as filmy as daintiest cambric 1,000 yards are often spun from one ounce of wool, each thread being three fold, thus making 3,000 yards in all. Stockings knit from this can be drawn through a finger ring, and for such delicate hosiery two guineas per pair, and even more, are often paid. Within a few years more and more of this exquisite thread is used in making shawls, pure white or dark gray, which command very high prices; they are like cobwebs for delicacy and lightness.

What the camel is to an Arab, the sure footed, tough-fibered pony is to the Shetlander. One familiar with their customs has said that, though bred on the wild heaths, the "shelties," as the ponies are sometimes called, can be tamed in one night. The hunter, throwing his lasso with skill, secures a frisky colt, and for twenty-four hours keeps him a prisoner. The small creature hears no other voice than his master's; the hunter feeds and carcases him, and gradually the terrible restlesaness subsides

Hereafter he becomes a docile, affectionate burden bearer and companion. He needs no stable, and has a happy faculty of onjoying whatever he finds to est. A dun-colored "sheltie" of exquisite symmetry, seen by a tourist, could stand under a dining table, and a little lady could seat herself upon its back without lifting her feet from the ground. They are favorites for the saddle, and many are sent to other countries for the pleasure of ladies and children .- Harper's Bazaar.

INDIA AS A WHEAT PRODUCER.

The report of U. S. Consul-General Bonham, at Calcutta, British India, treats at length of the wheat interests of that country. The area devoted to wheat in 1886 was about 27,500,000 acres, and the total yield 289,000,000 oushels. As compared with the wheat of the Pacific coast, the Indian wheat is inferior, but whon experted to Europe it is mixed and ground with wheat of a superior quality, by which process a fair marketable grade of flour is obtained. The method of cultivating the soil is in the main the same as it was centuries ago, and there seems to be great difficulty in inducing the farmer to invest in modern agricultural implements, and yet with all the simple and primitive methods the Indian farmers can, in the opinion of the Consul-General, successfully compete with those of the United States in the production of wheat. This is due to the fact that the Indian farmer's outfit represents a capital of not more than \$40 or \$50, and his hired help works, feeds, and clothes himself on about \$2.50 a month. A table is annexed, showing that the export of wheat from British India has increased from 300,000 cwt. in 1868 to 21,000,000 cwt. in 1886, and that the increase of 1886 over 1885 amounts to about 5,000,000 cwt.

The Cousul-General says that some of his predecessors have claimed that the United States has nothing to fear from India as a competitor in the production of wheat. In this view he does not concur, and believes that to-I economiser.

day India is second only to the United States in wheat growing. more, wheat-growing in India is yet in its infancy, and further development

INDUSTRIAL NOTES.

the classes in industrial drawing at the Art School are being well tofore the artism has had no means at his command whereby he could improve his condition, or be taught how to make use of the artistic talouts latent in his disposition. The Art School has opened to him the door by which he may attain to the highest results, and he has not been slow to take advantage of it. In all cases there is hardly likely to be found talent sufficient to raise above mediocrity, but every artizen will be improved in artistic skill who has the wisdom to take advantage of a course at the Art

The present has been an unusually busy season in the building line in Halifex. Dalhousic College and the new City Hall have been the largest buildings under construction. Many new and handsome private residences have been elected, and old promises have been rebuilt and enlarged.

Brick-layors, masons, stone cutters, plusterors and expenters have been in demand, and have had steady work at good wages.

This is a healthy sign, as when mechanics and artizans find steady employment a large amount of cash is put in circulation, and retailers of all descriptions are generally benefitted.

One netable improvement in the city is the general awakening to the fact that paint adds much to the external appearance of the place, and if the next season witnesses as many improvements in this respect as the past, the term "dingy city" will no longer apply to Halifax.

That Amherst is fully abreast of the times is made avident by the fact that its enterprising townsmen, in addition to putting in the electric light, are also creeting a central heating station. The Authorst light and heat company, composed entirely of Authorst men, has just seen formed, and it is the intention of the company to light the town with the electric light, and heat stores, churches, hotels, &c., from a contral station which Rhodes, Curry & Co. are now building Robb & Sons are putting in engine and boiler, and S. G. Chambers, of Truck, has the contract for dynama and wires. It is expected to have the light in operation in a few weeks. The idea of a central heating station from which buildings may be heated is an excellent one, and its application to Halifax would prove most beneficial. As the metropolitan city of the province Halifax should take the lead in introducing all improvements, but Amherst has evidently got the start in this instance.

During the last twelve yours, a great change has taken place in England in the application of steam power for factories, especially in those devoted to the spinning and weaving of cotton. Formerly, a heavy and slow running pair of beam engines, transmitting their power through the factory by cumbersome gearing, was considered the acme of perfection. About thirty years ago, horizontal engines came more into use, partly on account of their first cost being less, and partly because it was imagined there would be greater immunity from exponsive breakdowns. Opinion was much divided about the relative merits of beam and horizontal engines. It was observed, however, when money was no object, that the old beam engine carried the day. Now, the quick running engine has come to the front again, rendered indispensable by the substitution of tope driving for the old heavy gearing. is only fair to say that the idea sprang from the mode of driving by belts, so much used by the Americans. The English took another step in front of the Americans by using ropes instead of belts. The advantages of rope driving were soon apparent in the vastly better turning of the machinery. This is especially felt in nulls spinning fine numbers. The indicated horse-power to turn the same number of spindles is slightly greater with 100es than with gearing. This may be accounted for in more friction from the higher piston speed of the engines, and in the friction of the ropes as they leave the grooves. Cotton ropes from 17 inches to 21 inches answer the

A first-class job of engines to turn 1,200 indicated horse-power would be comprised in the following particulars: Boiler pressure, 190 lbs. per sq. inch. Triple expansion vertical ongines with automatic cut-off motion nech. Triple expansion vertical ougines with automatic cut-off motion applied to high-pressure valve. Ports and pipes large enough to enable not less than 99 lbs. of steam to be on the piston at the initial point of the stroke. The three cylinders, 25, 36 and 50 inches respectively, to be steam necketed. Stroke, 4 feet. 75 revolutions, giving a piston speed of 600 feet per minute. Drum, 25 feet in diameter, to carry 25 27 in. cotton ropes, running nearly 6,000 feet per minute. Crank shaft and pins to be hellow, made of Whitworth's fluid compressed steel. Particular attention to balancing the engines, which must be accurately tested. The steam would be supplied by 5 double-flued Laucashire boilors, containing 5 conical Galloway tubes in each flue. Fach boiler fed by containing 5 conical Galloway tubes in each flue. Each boiler fed by Proctor's mechanical stoker. Length of boilers 30 feet, and 8 feet in diameter, constructed of the best mild steel. A'tached to these, would be a Green's Economizer, containing 460 pipes.

Long experience has taught users of steam power in England that no form of boiler com lines half the good qualities possessed by a simple doubleflued Laucashire boiler, supplemented by a good draught and a good