WILLAMETTE FARMER.

The Wools of Commerce.

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textile industries in this country, and America is the greatest wool- indispensable; and perfection in this growing country in the world. It is respect, together with approved pedtherefore of importance that we igree, constitutes the acme of choice should know every practical detail breeding. The small number of of the qualities of sheep's wool, of such choice animals, in comparison the progress made in sheep farming with the vast aggregate of the breed, in various countries, the compara- causes them to sell at prices which tive increase in the weight of and to persons unacquainted with Short profits on wool, the modes of tend- Horns seem vastly disproportionate ing, shearing, washing the fleece, to their intrinsic value. A noted baling, taking to market, boiling lover of fancy trotting horses exdown the carcass, and steaming for pressed surprise in our presence, the tallow-all of which points are de- other day, at the result of a late aucserving of notice and attention. Of tion sale where some fine Short Horn all domestic animals except the dog, bulls and cows brought from \$1,500 the sheep is the most really modified to \$3,000 each, and exclaimed, "but in form, size, or quality of fleece .- these bulls and cows can't trot!"-There is, for instance, the coarse He did not, however, consider a wool of long-wooled breeds like the trotter dear at \$5,000 to \$15,000, and Cotswolds, furnishing what is called a gelding at that. We explained "combing" wool, and employed in that, although for steer breeding, the manufacture of coarse worsted such prices would be extravagant, goods; and there is, again, the short these bulls can beget thousands of fine wool of Merino sheep, ready to others inheriting their valuable spin into the finest threads. Corre- qualities, and the latter can beget sponding to these varieties of fleece equally good beef stock upon less valuable cows. The choice meat of possessed by different breeds, there these steers will be one hundred per are accompanying varieties of form, size, disposition. Some breeds are more valuable than that obtained fitted for rich, easy pasture, and fat- from common stock. ten at an early age, while others snatch a precarious living by traveling over a wider range, exposed to bleak winds and the perilous storms of mountain wastes.

it is of the utmost importance to se-they, in turn, will improve the na-toet the breed which experience has tive stock. The men who pay these lect the breed which experience has proved to be the best adapted constitutionally to the climate and soil.

Another point to be noted is the sort of food on which they are nourished, for as tillage land may be ished, for as tillage and may be made, by the aid of fertilizers, to produce forty per cent, more than when the average for herds of thirty Its usual yield, so may sheep be to sixty animals runs from \$400 to made to give forty per cent, more wool by having their food adapted to the special formation and growth of that article. Now, one or the chief constituents of wool is albu- upon the natives, and are usually of but we will suggest that there may men; hence those cereals which contain the most albumen make the blood may be as pure, their pedigree most wool when given as food to may be of as long and untainted de- ty here to whom the name would sheep. A glance at the following table will show this:

salt, make 61 pounds of wool; of Journal, mangold wurzel, raw, 5]; wheat, 14; oats, 10; rye, with sait, 14; rye, without salt, 12]; barley, 12]; peas, 163; buck wheat, 10,

and rye, which contain the largest cake, and similar gross substances,

ed ancestors, one hundred years, and some even one hundred and fifty.-Wool is one of the most important High quality in figure, flesh, and general style of the animal is also

We may presume that at present there are twenty to thirty thousand well-bred Short Horns in the United States, but among all these there can hardly be counted a single thousand which would be acknowledged o From this it is evident that, in in-troducing sheep into a new country, than the ordinary Short Horn, and high prices make money by selling it to the poorer Chinaman. The uncattle to other breeders, and are not governed by mere caprice in their purchases of extra stock. At this year's sales many herds containing the gold he comes in contact with several choice animals have sold for and keeps it, or sends it back to his \$900, several among them are bought though many a Chinaman's hardby experienced breeders at extraordinary prices. 2. The cheaper Short Horn bulls,

which are bred mostly for crossing ent, but not having been crossed with aristocratic bulls, nor reared with the same care, they will not 1,000 pounds of potatoes, raw, with sell tor as high prices,-Live Stock

How to introduce Queen Bees.

If your bees are in a common box in payment for goods. While as-From this we see that peas, wheat, or straw hive, drive them out in the serting that the China sponge sends usual manner into an empty box or all his money out of the country, percentage of albumen, produce the hive, then shake them out on a sheet, would it not be well to except the most wool, giving about twice the seek for and remove the queen, and amount paid for vegetables, butter, number of pounds that roots of equal return the bees to the empty hive or eggs, chickens, and other articles of weight do. Indian-corn meal, oil- box. Let them remain undisturbed, food, also the amount paid out for until by their restlessness they show exarbitant rents for miserable quarare the best food if tallow is wanted; that they have become aware of their ters, and the licenses he pays, as but if the object is the most and best queenless condition. Then fumigate well as his wood and water bills ?-wool, the sheep-owner must rely on them with tobacco, sprinkle them Have we considered the amount of into small fragments at a few hunhay and water, with a daily allow, with sugar water, and introduce hard and dirty work done for us ?hay and water, with a daily allow-ance of the best grains, and some your new queen among them, gently work that we could not get on well ocity of the mass was calculated at *American*. and uncaged, having previously be smeared her with honey taken from lowest and most ignorant class of In order to determine the amount

For the Willamette Farmer, Chinese Immigration.

It seems hardly fair for the American people to refuse to listen to both sides of any question that may concern them. Our boast has been our free speech, our free opinions, our free country. Are we getting beyond this, or behind it, when any party or organization of the people propose to stop the immigration of any nation by the oppression or abuse of its people, or the persecution of our own countrymen for thinking differently from themselves on any given question ? For many years the nations of the West have tried by every means in their power to open the gates of the East, hoping to get gain by trade in silks, teas, and Eastern wares, and to establish great houses for commerce and exchange in the cities of China. After a vast amoant of diplomacy and expense, they have done this, and today Americans can go to China, trade and get rich, and bring away

their wealth, with no hindrance. But, in opening the gates of China to get in, we have unfortunately left them ajar, and the poor, miserable, hungry heathen have slipped out, in search of food, gold, and, perhaps in some cases, peace and truth. We

will not contest for the truth of the latter clause of our assertion, lest we fail to prove our position. The conseem bitter to many on this Pacifie coast, as the incoming flood of cheap laborers threatens to take the gold from the poor white man, and give foctunate Celestial has been compar- point of the earth's crossing. ed to a sponge, in that he takes all starving family on the other side the ocean. We will not dispute the justice of this comparison altogether, earned dollars now draw interest in the hands of China merchants in the cities of San Francisco and Portland, They be many American sponges in China, and also many of our own nationaliapply. As an example, we need only to cite railroad companies who are constantly sending large sums of money away in the payment of interest; and merchants who absorb our last dollars and send them to the East, to Europe, and even to China,

bly become. Should the immigra- polished with difficulty, owing to the tion from China continue, we have extreme hardness. An abundance the opinion of some intelligent Chi- of malleable granules of nickeliferous nese that their own countrymen will iron was recognized. The interior do all in their power to put a stop to of the fragments appear porous, but do all in their power to put a stop to it. Already they feel the decrease of work and wages, and they have sent word to their coming brothers or part of the mass contained soluble that they will have trouble if they come here where they are not want- it has been noted that the meteors of ed. As to those of our own people the August and November showers, who oppose their immigration and traveling at the rate of from 36 to 40 employment, we presume they have miles per second, find an insurmounta right to their opinions, but they have no right to try to enforce them only bodies of an upon other people. We think the tude would be able to penetrate it whole matter is viewed in an exaggerated light, which has probably a fragmentary condition. been thrown on the subject by designing politicians, who wish to scribes, having a velocito nearly make popularity for themselves, and equal to the above, must have been who have succeeded in arousing the a remarkable fact, that an unusual passions and evil blood of the lowest and most excitable classes, which fell in Europe between July and Sep will perhaps end in worse evils than tember of last year. have been brought by all our previ-

ous Chinese immigration. CATHAY.

Recent Metcoric Investigations.

the earth passed through the first of ascribe to them a planetary origin: the earth passed through the first of the two great rivers of meteors which intersect its orbit; and on November From this supposition, the masses 13 or 14 it will encounter another come from no single body, since disequences of our own deeds already shower of shooting stars, of equal magnitude. The band recently traversed, known in ancient times as the Tears of St. Lawrence, is about 10,-948,000,000 miles in its greatest diameter, and 4,043,350 miles wide at the

> Probably the most recent investigations into the nature of the erratic the mineralogical structure and commasses which constitute these vast belts are those made by Father Ferrari and others in the fall of last year, recently published in Les Mondes .--They are based principally upon the observation of a remarkably brilliant aerolite, which fell near Orninio, in Italy, during the latter part of August, 1872. The course of the body was from the southward and eastward, it appearing at first quite small and emitting a reddish light which gradually increased in brilliancy, leaving behind a misty train. Sud- curious fact that the three bodies denly the bolide flamed up apparently as large as the moon, and then in-stantly disappeared, a long cloud, of the earth. 3. Meteorites have also serpentine form, remaining in its place. About three minutes after, a violent explosion was heard, followed by two others of less intensity. From the point of first observation to that of its disappearance, the meteor traveled over a trajectory of 62 miles, and its altitude at the beginning was measured at 30°, corresponding to an elevation of about 114 miles. The first detonation took place at a hight of 10.2 miles, and the final bursting dred feet above the earth. The ve-32.2 miles per second.

> as any Chinese quarters could possi- of various substances. An angle was Beyond silicates, principally those of magne-sium and of iron. From the fact that From the fact that able obstacle in the atmosphere Schlapparelli has pointed out that enormous magni-Ferrari observes that, from this, it may be considered that the meteor h · denumber of these bodies, ten in all,

The author states the result of his observations to accord with the following conclusions previously enun-ciated by Schiapparelli : 1. The intimate correlation between the comets, shooting stars, and meteorites is now placed beyond doubt, and the immense velocity observed in some On the tenth of the present month, meteorites renders it impossible to vers cases demonstrate the fact that they arrive from totally different regions in stellar space. 3. The hy-pothesis admitted, it must follow that the chemical and molecular structure of the bodies of the universe, situated in different positions, must be of similar nature to that of he meteorites themselves

The below given views regarding sition of aerolites are ascribed to Danbree, and are the results of examination both by spectral and chemical analysis by the most eminent chemists prove that meteorites contain no simple body unknown to our globe. 2. There have been recog-nized with certainty twenty-two elements, given below in the descend-ing order of their importance: Iron, magnesium, silicon, oxygen, nickel, cobalt, chromium, manganese, titanium, tin, copper, aluminum, potassium, sodium, calcium, arsenic, phos-phorus, nitrogen, sulphur, chlorine, carbon, and hydrogen. It is very which predominate in nearly every meteorite, iron, silicon, and oxygen, many peculiar mineral compounds, principally native nickeliferous iron and of nickel (schriebersite) and sul-phide of iroa (troilite). There are also common to the meteorites of the earth a great number of combinations, imilar not only in chemical composition but even in crystalline form. 4. Meteorites indicate in a measure the temperature at their formation, and that by which they are caused disaggregate, 8, Lastly, these bodies demonstrate the existence of innumerable masses disseminated through the remotest regions of space, which would be completely unknown were it not for their sudden and

LANDOR'S RECOGNITION OF GENsmeared her with honey taken from the hive from which they were driv-en. She will be readily and gladly has also done much of the hard work has also done much of the hard wo rare and generous delight with which Landor ever welcomed the shawms of popularity look back with deeper gratitude to the prescient praise of the young-hearted veteran who decorated them from the laurels and myrtles of his own classic garden.

potatoes or carrots, or green food. N. Y. Economist.

Shori Horn Sales of 1873.

This year is probably the most notable, thus far, of any in the history of Short Horns in the United States. For several years past the increase of Short Horns in numbers, their improvement in quality, their rapid extension over our vast country, and hive, remove the queen, take out the the popularity they have reached combs in rotation and shake all the among intelligent and progressive agriculturists, have been unprecedented. The capabilities of the Short Horn in the dairy are also being recognized. This breed now absorbs by far the greatest degree of public attention, although the Herefords, the Devons, the Ayrshires, the Holsteins, and even the Scotch Galloways, among our Canadian neighbors, find many advocates of their merits on solls to which they are

back, through a long line of approv- acreage.

run them into a movable comb hive, into which the combs have been transferred.

If your bees are in a moveable comb into another, letting them remain till they show signs signs of queen-lessness. Then proceed as above, and after twenty-four hours' confinment, run them into a hive in which their original frames and sombs have been inserted. They will be content to feed themselves after their pro-longed abstinence, and will not injure the fertile queen.-Bee Journal.

CROPS IN IOWA .- The Iowa Homebetter adapted than the Short Horns. The capabilities of this breed as meat-producers, on a good soil, and gave the best yield. Of other she had for de population, as in San Francisco and a few streets in Portland, the question of health is important, but the strongest will be about as usual. Corn promitive believe that it can be managed with one-fourth less for dirt, we have seen camps of Irish back, through a long line of approv-strees actions of line of approvbetter adapted than the Short Horns. stead estimates the wheat crop of can citizens, but little or better than degree far more than sufficient to ex-

without, and work that none but the

them the most gold or whisky, and

to people our streets with ragged children who grow up into Amerilaborers in fair New England as filthy | The mass was crystalline, and formed | again.

accepted. Let the bees and queen that women would otherwise have parelli's investigations were employ- rare remain together thus confined in the been obliged to do. In the absence ed. That astronomer has demonunfurnished hive twenty-four hours. Then shake them out on a sheet and of trained servants of our own na-then shake them out on a sheet and tion, or European servants, they limits of the earth's atmosphere at a new planet to the astronomer; the have done much to alleviate the sufferings of the overburdened wives and mothers of our land, who have and mothers of our land, who have where the atmospheric pressure is at thereby, in many instances had their .36 inch, it will have already lost bees down on a sheet. Set the combs lives preserved and prolonged.— $\frac{10}{11}$ of its velocity, and $\frac{120}{121}$ of its *visriva*. We think the question remains an It is evident, therefore, that so great open one whether our society would a proportion of lost motion must be be improved by the immigration of converted into enormous heat. Apan ignorant, low foreign population, plying suitable formula to the case the scum of the cities of Europe, in point and assuming the specific freely used her tongue to the scandal such as usually come, to do this dirty heat of the body to be .22 of 1° centi- of others, and made confession to the work for us, having the power to grade, which is not far from the priest of what she had done. He gave vote for that man who would give truth, it has been found that the aug- her a ripe thistle top, and told her te mentation of temperature, after go out in various directions, and scatplunging into the earth's atmosphere, ter the seeds one by one. Wonderwould be 3,468,107.8° Fahrenheit, a ing at the pennace she obeyed, and degree for more than sufficient to ex-

THE story is told of a woman who