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duction and easy rearing, but by all means go and ears of the Poitou are enormous; the larger

not add are the Shires we feel proud of. DRAFT HORSE.

Notes on Mule Breeding.

in other countries is, in this respect, of great mule required in South Africa. assistance in deciding which breed of donkey is most suitable for the production of mules. Let with mule breeding.

Broadly speaking, the "Catalonian" the "Andalusian," the "Maltese," the "Italian," and the "Poitou," are the only varieties that have been used to any great extent, though, of course, large numbers of mules are bred from native jacks or nondescript animals which cannot claim to belong to any one particular

The "Catalonian" is by far the finest type of animal, and must easily be placed first as the sire of mules. He is bred in Catalonia in Old Spain, and was introduced into the country by country. He is a good black color with a white or mealy muzzle, with white or greyish colored belly. He possesses fine style and action with plenty of good clean bone. These Catalonian jacks vary but little in form and style, but greatly in size, running from 14 to 16 hands, though the majority of those that are actually bred in Spain are from 14 to 15 hands.

first pure blooded Spanish jack was sent to are not as large as those of a Poitou, but should the big shows. His example can be followed, Kentucky in 1832. He was the property of be sound and truly formed. the Hon. Henry Clay, and stood fifteen hands high. This donkey was crossed with the mongrel jennies previously referred to, and the progeny have been continually mated with pure bred throughout the U.S. as the "Kentucky Jack," were formed.

type as the Catalonian, having perhaps, a little

He possesses a nice fine coat, but is deficient in able. bone and substance.

place to America to-day. From the standpoint than other breeds of asses. He is essentially would be entirely wrong to knowingly breed of a practical farmer in England who has bred the class of donkey suited for slow and heavy horses from unsound mares, no great harm could Shires and Clydes and as a farmer in Canada draft work. No doubt the great difference accrue from trying to produce a useful mule to-day, you have all that is needed out here in which exists at the present day between this from a mare that otherwise would be useless. — Alberta for the raising of good draft horses. breed and the Catalan has been brought about Capt. C. H. Blackburne, D.S.O., in *Transvaal* Your country is second to none for cheap pro- by selection and careful breeding. The head *Agricultural Journal*. in for the Shire as he is the only draft horse with they are the more valuable is the animal consufficient weight to get size and quality out of sidered to be. So large are his ears they are your light mares. I think it is an honor to very often carried horizontally, like those of a Canada that His Majesty King Edward and lop-eared rabbit, giving the animal a very information upon cement floors for horse stables? Lord Rothschild should send such valuable horses extraordinary appearance when viewed from I have been told they are very cold in winter to our fairs. In conclusion I will say, the chief the front. His lips, especially the lower one, are and dangerous when there is snow which makes thing which strikes an American when he stands curiously pendulous, and he carries a long them slippery."
for the first time on the docks at Liverpool is mane and forelock. He is covered with an exwonder and amazement at the magnificent draft tremely long coarse coat, and, on his legs there horses doing heavy hauling work, these I need is also a plentiful growth of coarse and wiry hair. Although this donkey is possessed of many good qualities for the production of mules in some countries, he is not an animal that would be found adapted for mule breeding in South Africa or, in fact, in any hot country, as his To make a success of mule breeding, the kind enormous growth of coat would harbor parasites of Jack Donkey to be used is naturally of the and his sluggish disposition would not be likely very greatest importance. Previous experience to make him a success in breeding the class of smooth coat is given by using a steel trowel for

from all the varieties of donkeys to which we us consider some of the different varieties that have referred, but by far the largest number but floors so cut up are very difficult to keep have largely been made use of in connection are bred from the Catalan jack, who has proved clean and the coarse surface is much preferable. more successful than any of the other breeds. Catalan jacks develop one very marked pe- the concrete mixed one to six or one to eight deculiarity, and that is a uniformity both in shape pending upon the brand used. The second coat And experience has shown that a finely formed sixteen hands Kentucky jack, although the Kentucky donkey may be to all intents and purposes a stalls and the surface a pure bred animal. The best mules are proness of sand paper. the Moors at the time of their conquest in that duced by truly formed Catalonian jacks standing from 14.2 to 15 hands, and it is a mistake to make a point of obtaining very much larger jacks, as in most cases, when you get a jack of great height, he is found to be deficient in girth and in substance, and has a decidedly weedy appearance.

A good jack should have plenty of bone In Kentucky, a very fine breed of donkey is measuring not less than eight inches below the Catalonian donkey that has been bred in Kentucky, but, in many cases, they are descended on the female side from mongrel-bred "jennies" should be possessed of good courage and activity, such stock with a view to having the calves and be good tempered, this last point being of suitable ages for the various classes at instance with sure bred Catalogica is also and activity.

The foot of a Catalogica is also are a contracted and long ears of fine quality. The time is fast approaching when the breeder of high class cattle will consider the mating of such stock with a view to having the calves and be good tempered, this last point being of suitable ages for the various classes at instance with sure bred Catalogica is also and activity. instance with pure bred Catalonian jacks. The great importance. The feet of a Catalan jack come, of suitable ages for the various classes at

THE KIND OF MARE TO BREED FROM.

jacks, imported from Spain, from time to time. from the jack, also its internal characteristics, air conditions. If after a summer's run at grass, acks, imported from Spain, from time to time. From the jacks, and the jacks, imported from Spain, from time to time. From the jacks, and the jacks, the present race of jacks, known hardiness of constitution and capability for the kine are ill favored, in low condition or until the jacks, the present race of jacks, known hardiness of constitution and capability for the kine are ill favored, in low condition or until the jacks, the present race of jacks, known hardiness of constitution and capability for the kine are ill favored, in low condition or until the jacks, the present race of jacks, known hardiness of constitution and capability for the kine are ill favored, in low condition or until the jacks, the present race of jacks, known hardiness of constitution and capability for the kine are ill favored, in low condition or until the jacks, the present race of jacks, known hardiness of constitution and capability for the kine are ill favored, in low condition or until the jacks, the present race of jacks, known hardiness of constitution and capability for the kine are ill favored, in low condition or until the jacks, the present race of jacks, known hardiness of constitution and capability for the kine are ill favored, in low condition or until the jacks, the present race of jacks are in the jacks and the jacks are in the endurance, but its body and height come from healthy, such should be culled out and not bred its dam, and, therefore, breeders must not con-from. There may be extenuating circumstances The Andalusian donkeys are about the same sider that, although they are possessed of a good Catalan jack, any sort of a little mare will fall, but generally speaking the thin critter is not more weight and bone, but they are all "off breed them big and high class mules, as this a desirable type to let perpetuate its kind. Sumclass temperament of the Catalonian. They will never produce mules the equal of those energy under normal conditions and it is there are, in consequence not so estimated as a state of the catalonian. are, in consequence, not so satisfactory as mule bred from tall mares and heavy, good-boned fore at that time the animal economy is in the breeders, and, even if used for this purpose, their jacks from 14.2 to 15 hands high. For, although, best state for the act and purpose of reproduction progeny cannot in any way be compared with a 16 hand itself if motted with progeny cannot in any way be compared with a 16 hand jack, if mated with a mare of equal. The extreme heat of the summer is over, and the mules got by Catalonian jacks.

a 16 hand jack, if mated with a mare of equal. The extreme heat of the summer is over, and the size, will produce a mule of even greater height; keen fall air is tonic enough to key the animal The Maltese is a smaller donkey than the attalan being result even for such and loggy original that is generally a high-bodied organism up to the proper pitch for such and loggy original that The Maltese is a smaller donkey than the Catalan, being rarely over fourteen hands high.

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There are many authorities who advocate that The Italian jack, the smallest of all that are only a very good class of mares should be used hand down a heritage of excellence, in either used in mule breeding, usually stands 13 to for mule breeding, and that indifferent and dairy or beef lines, according to his breed and 13.2. He is a very smart little animal posesssing unsound mares should never be used. But with type. Another advantage is that by breeding very nice quality, and, for his size, having good this opinion I do not quite agree; for whereas, the cows so that they drop their calves early in bone, with a beautiful fine coat. Many of these of course, it is much better to breed mules from the fall, they will milk well all winter, when dairy Italian donkeys are used in India for mule good roomy sound mares, still a breeder may products are high in price, and will take a new breeding, as they get a very good class of small often find himself in possession of a mare which lease of productivity in the spring if placed on active made have been sometimed and the spring in the spring if placed on a mare which lease of productivity in the spring if placed on a string made have been spring in possession of a mare which lease of productivity in the spring if placed on a string made have been spring in possession of a mare which lease of productivity in the spring if placed on the spring in possession of a mare which lease of productivity in the spring if placed on the spring in possession of a mare which lease of productivity in the spring if placed on the spring in the spring in possession of a mare which lease of productivity in the spring if placed on the spring in the spring in the spring in possession of a mare which lease of productivity in the spring if placed on the spring in the spring i active mule, but of course, cannot be expected to produce as high class an animal as one got by a Spanish sire. The Poitou donkey, according to some authorities, is supposed to have been originally of Spanish extraction. He differs, however, very considerably at the present day of her progeny passing on any unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only that but 'the resting has some hereditary unsoundness that would good pastures; not only however, very considerably at the present day of her progeny passing on any unsoundness, in the past been looked at altogether from the both in outward appearance and in disposition owing to the wise provision of nature that standpoint of the intent and purpose of the profrom the Catalan. He occupies a similar posi-renders the hybrid sterile. I do not wish my geny, but it is also well to consider the sires and tion in the donkey world to that occupied by the Clydesdale amongst horses, having great bone I am advocating the breeding of mules from offspring, as well as persistency in breeding in the and weight, with a larger and more open foot unsound mares, but rather that, whereas it parents.

Concrete Floors for Stables.

A correspondent says: "Can you give me any

Because concrete is a good conductor of heat it is not a suitable material for horses to lie upon, consequently should not be used in the stables unless covered with a wooden floor but in the assages it is both durable and inexpensive. True it is slippery and dangerous if finished with a smooth coat but as concrete is capable of being moulded into any shape there is no necessity in having a smooth coat on the surface. The the floor has surface much like sand paper. In Large numbers of mules are bred annually some stables we have seen the floors laid off in checkers like the crossings of sidewalks in towns himself for many years to be superior to, and The floor should be built up of two parts; the first layer may be two or three inches thick with good color, thrifty growing and feeding qualities, must be harder and should be in the proportion combined with docile tempers in the mules of one to two or stronger. In the stalls this top produced from every quality and color of dam. layer need not be put down, the planks being laid on the first coat and nailed to sleepers embedded high couraged Catalan jack, standing 14.2, will in it. Such a floor we feel assured would be produce a mule as good, if not better, than a entirely satisfactory, especially if care is taken to give it the proper slope behind and in the stalls and the surface is left at about the rough-

STOCK

however, by the average farmer, who wishes to get the maximum results from his cattle at the smallest cost to the animals themselves. In addition also he now has the opportunity of sizing A mule gets its head, ear, foot, and bone up the value of his cows under natural and open for a cow or heifer being in low condition in the properly tended and cared for in the matter of food and exercise, he is in better condition to