article of fool botter than beef. The simple but sipnificant truth is that the natives, ns I have already said, have learnt the commercial value of sheep and are ready to sacritice olid habits and long inherited tastes to a new born idea of utility and desire for profit. The change means more than this; for as the use of the plough and the disuse of the pick involve the labour of the men instead of the women in agriculture, extended cultivation, enlarged production, a surplus beyond personal wants for trade, and the growtho of property; so the preference for sheep involves an additional demand on the labour of the men in shearmg, cleansug, sorting, pack-
ing, and all the arts, however humble, of preparing wool for ing, and all the arts, hovever humble,
the bujer. -Eng. Lite Stost Journal.

## The Moon and tho Weather.

The notion that the moon exerts an influenco on the weather is so deeply rooted that, notwithstanding all the attacks which have buen made against it since meteorology has been serionsly studied, it continues to retain its hold upon us. And yet thero never was a popular superstition more utterly without a basis than this one. If the moon did really possess any power over the weather, that power could only be exercised in one of three ways-by reflection of the sun's rays, by attraction, or by cmana. tion. Ne other form of action is concenable. Now, as the brightest light of a full mom is never equal in intensity or quantity to that which is reflected toward us by a white clond on a summer diay, it can scarcely bo gretended that weather is affected by such a cause. That the moon does exert attraction on us is mamfest-we seo its working in the tides; but though it can move water, it is most un-
likely that it can do the same to air, for the specific likely that it can do the same to air, for the specific gravity of the atmosphere is so small that there is nothing joint attraction of the sun ami moon together conld uot stir the atmosphere at a queker rate than five miles a day. As for lumar emanations, not a sugh of them has ever been
discovered. The adea of an influence produced by the discovered. The adea of an intuence produced by the canse whatever. Furthermore, it is nov distinctly shown that no variations at all really oceur in weather at the moment of ehanges of guarter any more than at other or chary tmes. Smee the estabhishment of meteorological stations all over the earth, it has been proven by millions of observations that there is no simultaneousness whatever
between the supposed cause and the supposed effect. The between the supposed cause and the supposed effect. The
whole atory is a fancy and a superstition which has been whole story is a fancy and a superstition which has been
handed down to us uncontrolled, and which we have achanded down to us uncontrolled, and which we have acmoon exercises no more influence on the weather than her-
rings do on the government of Switzerland. - Blachood rings do on the government of Switzerland.-Blackirood.

## A Big Wheat Farm in Pembina

A gentleman who came down from the North Pacific the other day gives to the St. Paul Pionecr Press the following interesting notes in relation to Dalrympe's great wheat farm:-The amount of ground sown to wheat this sping was 1300 acres. Llarvesting commenced on Monday with nine self-binders. The machines are rm fifteen hours without rest, except the ordinary stops for oiling, lunch and dinner, and the result per day is 150 acres. One man is employed to each team, and twelve men follow the machines shocking the wheat as soon as it is cut. The entire 1300 acres were to be cut and shocked durmg the weck; stacking and threshing will of course follow. Dalrymple is harvesting his erop for about one-tifth of the cost required under the system in voguc ten years ago. At the time harvesting commenced it was estimated the yield per acre from the entire tract would not be less than twenty bushels to the acre. Grasshoppers had done but Intle damage, the excessive hot veather cane too late to blast the crop, and everybody who saw the waving grain pronounced big wheat farming on the North Pacific a success. The farm on which this crop was grown consists of 30,000 acres, on which next scason there will be sown to wheat, 9,000 acres, the sod of it having been broken this season. During the breaking season Mr. Dalrimple had as hagh as one hundred teams at wotk.
The furrows turned were six miles long, and the teams make The furrows turned were six miles long, and the teams make the four furrows, twenty-four miles. The location of this farm us eighteen mips west of Moorchead, Minnesota, in the proposed new territory of Pembina, and this is not the only bug farm in the bemity, but is the boss farm of a

## The Ants oi Africa.

When they grow hungry the long file spreals itself through the forest in a front line, and attacks and devours all it overtakes with a fury that is quite irresistible. The elephant and gorilla fly before this attack. The black
men run for their dues Every anmal that lives in the
line of march 12 chased. Thay seem to understand and
act upon the tactics of Napoleon, and concentrate with act upon the tactics of Napolcon, and concentrate with great speed their heaviest forces upon the point of attack. In an iucredibly short space of time tho mouse, or dog, or leopand, or deer, is overwhelmed, killed, caten, and tho bare akeleton ouly remains. They seem to travel night and day. Many a time have I been awakened out of sleep and obliged to rush out of the hut into the water to save my life, and, after all, auffer intolerable agony from the bites of the advanco guard, who had got into my clothes. When they enter a house they clear it of all living things. Cockroaches are devoured in an instant. Rats and mice spring round the roons in vain. An overwhelming force of ants will kill a rat in less than a minute, in spite of the most frantic struggles, and in less than another minute its boncs aro stripped. Every living thing in the house is dovoured. They will not touch my regetable matter. Thus they are, in reality, very uscful (as cleared of all abounding vermin-such as immense cockWhaches and centipedes-at least soveral times a year. When on their march the whole insect world tlies before them, and I had the approach of a bashikouay army
heralded to me by this means. Wherever they heralded to me by this means. Wherever they go they highest trees in pursuit of their prey. Their manner of attack is an immense leap. Instantly their strong pincers are fastened, and they ouly let go when the pioce gives way. At such a time this little animal seems animated by
a kind of fury which causes it to disregard entirely itsown safety and to seu. only the conquest of its prey. The bite is very painful. The negroes relate that criminald were in former times exposed to the path of the ants as the mose cruel manner of putting them to death.

## Sargacity of the Horso.

An :nusing incidont, and ono in which the intending liter was well bint, ocenrred the other day in North Lancashre. A builier was in want of a horse, and had the offer of ono from a dealer who was noted for doing a little bit of sharp practice whenever a zonvenient opportunity offered. The two hved a fow miles apart, and the me-
liminary negotiations had been conducted by letter, and a liminary negotiations had been conducted by letter, and a had invested it with every good property, and hal stated its age, \&e. As the builder was not very well conversant with horse flesh, he inluced a friend, a retired farmer, to go with hm to inspect the ammal. Accordmgly they well calculated for the required work. A price was named, which the bulder thought a long one for an aged horse. The farmer had been critteally lookng over the aninal. "Suppose," said he to. the dealer, "you adil five years to
the age you mame; don't you think you would then be the age you mane; (lon't you think you would then be
nearer the mark!" The dealer protested the age he had given was correct-he had had him so many years, and he bought him from the breeder. "You did nesuch thing, said the farmer : if I am not mistaken I brod the horse my, solf." An altercation followed; each was positive, ami
the builder was on the horms of a dilemma the builder was on the horng of a dilemma. At length
the farmer settled it thus-" You say the horse is so oll the farmer settled it thus--" You say the horse is so ohl
-I say he is five yers older ; you ask L 50 for him-I say E30 is enough. I will wager a 15 note that I prove thic correctness of my argument, and on the result the price shall depend. let the horse be taken into the yard of my
late farm ; let the harness be taken from off him. and if he does not at once, without any direction. go into No. 3 stall in the stable I will previously point out, then I will forfert the $5=$, and you shall hare $\bar{x}$ : 0 for the horse If he dees as I say, then you soll him for $£ 30$ and lose your bet of f5." The dealer was in a corner, but he had prewously leen so posit:ve that he could not timd any pretext for
declming the challenge. The horse was taken to the farmyard (and it may be here remarked that the stable was not visible from the part where he wias unharnessed), and ummedhately on the gear being taken off him, he gave himself a shake, trotted round a comer of the yand, went direct to No. 3 stall, and was apparently quite at home in his new-old quarters. The sequel was that the builler ol,tained his horse at a fair valuc, the retired farmer his fo,
and the biter was well bit.

## A Fish that Rears its Young in the Mouth.

The chromis paterfamilias has tho gills-disposed in simple lamine ; it is unprovided with any special apparatus for retaining the cggs or the young ones, and yet it brings up about 200 young in the mouth and gills. It is always the male that performs these functions of incubation. After the female has deposited the egge in a deprestion of the sand or between the tufts of reed, the male approaches and takes them by inhalation into the cavity of the mouth. From there some movement, the mechaniam of which we
have not been able to observe, sends them between the have not been able to observe, sends them between the
leaflets of the gille. The presure exerted on the egse by
the bronchial lamine suttices to leep them in place There leaflets of the gills. The pressure exerted on the egge by
the bronchial lamine sutfices to keep them in place. There
in the midst of the organs of respiration, the egge undergo in the midst of the organs of respiration, the egge undergo
all them metamorphomet The young one
and soon appear much inconvemenced in ther narrow prison. Thoy leavo it, not by the gills, but through the opening by which the bronchial carity communicates with againat ono mother like remain in great mumber, pressed animal's mouth becomes so distended by the presence of this numerous progeny that actually the jaws cannot mect. The cheeks are swollen, and the animal presents the strangest aspect. Some of the young, arrived at the perfect state, contmue to lwe in the gills. All have the hoad lirected towari tho buccal opening of the father, the protecting cavity of whel wo havo not seen them leave even for a moment. Though so numerous they hold their ground very firmily, but how they do so we have not discoverel. Neither can we underatand how tho nursing at what period of their hife the young ones leave the inaternal monih to hive independently.-Popular Science Slonthly.

## A Spider's Bridgo.

One chilly day I was left at home alone, and after I was tired of reading Robinson Crusoe, I caught a apider and brought him into the house to play with. Funny kind of a playmate, wasn't it: Well, I took a wash-basin and fastencd up a stick in it like a liberty pole or a vessel's mast, and then poured in water enough to turn the mast into an island for my spider, whom I named Crusoe, and put on the mast. As soon as he was fairly cast away, he anxionsly commenced running around to find the road to the mainland. He would scamper down the mast to the water, stick out a foot, get it wet, run round the atick and try the other side, and then run up to the top again. lretty soon it became a pretty scrious matter with Mr. Robinson, and he sat down to think it over. In a moment ho wanted to shout for a boat, and was afraid he was going to le hungry. I puta a little molasses on a stick and a Hy, but Crusoe was not hungry for Hiea just then. IIe was homesick for his home in the woodshed. Ho went slowly ung lis hette sect hike passy when she gets her stockings wet in the grass, and suddenly a thought seemed to strike him. Up he went like a rocket to the top, and commenced playing circus. He held one foot in the air, then another, and turncl around two or three times. He got excited and nearly stowl on his head, before I found out what he knew, and that was this: the draft of air made by the fire would carry a line ashore on which he could escape from his desert island. He pushed out a web that went iloating in the air until it caught on the table. Then he hauled on the rope until it was tight, struck it several times to see whether it was strong enough to hold him, amd walked ashore. I thought he had earnod his liberty, so I put him bseti in the wooished.-Hearth and Home.

## American Sumac.

The ne, naud for Amcrican sumac has inoreased largely of late years among morocco manufacturers and dyers, and many inprovements have been made in its preparation. The quality of the native article has now arrived at great perfection, and mills for grinding have sprung up all chrough the Southern and Middle States. It has not been a protitable busincss for the past years, having suffered from the depression incident to all branches of trade.
Sumac grows all over the contincnt but
Sumac grows all over the continent, but that best suited for tammig and dyeng purposes grows spontaneously in a belt of country, ruaning from Maryland down through Virgmia and the Carolimas, thence through the northern scetions of Georgia, Alabama and Nississippi, and in portions of Kentucky and Tennessec. The northem chmate seems too cold to develop the tanning propertics of this plant, but large quantities of Pennsylvania and New cork sumace are sold in the leaf to tanners of goat skins, who put it in the vats to strengthen up and keep the sewed skins from leaking, and it is also used by many tumers who wish to brighten the color of their leather.
The Indian name of sumac is killikinick; they used it, and it is still used, to mix with tobacco for smoking purposes.
The season for picking sumac commences with the lat of July and ends the last of September, or with the first The stems, except the leaf stems, have no strength, and should not be gathered. They are full of pith, und if ground they only absorb the strength of the leaf and depreciato the value of the article. Sumac should be
gathered in this, way, wiz: Break off the parts of the bush contaning the leaves, but do not gather the blossoms or berrics. Some sumac gatherers allow the leaves to wilt a few hours in the sun, while others convey them inmediately into the shado or under cover. It is cured undes ately into the shado or under cover. it is cured under
shelter to preserve its color and streng th ; when it is dry sheiter to preserve its color and streng th; when it is dry
it is put in bulk, and when dry and windy days met in, spread out in beds as you would wheat or oats, on a clean plank floor. Then it is threshed with a flail, when the are raked away. In drying, before threshing, it should be frequently thrown over with a pitch fork to let the air get

