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By M. MACLEAN.

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IF The postage must be paid on lotters to the editor on the business of the office.

AGAROJLEVAL.

RECENT AND EXTENSIVE MARLING IN SOUTH CAROL NA.

Communicated for the Farmers' Register. Columbia, S. C., Nov. 3., 1842 ...

DEAR SIR :- It affords me great plea. sure to comply with your request, to farnish you with a statement of my marking operations during the first year, and the result of them so far as it has been ascertained.

I commenced in November last to mark my plantation at Saver Bluff, on Savannah river. There is no marl on the place. I procured it from Shell Bl all on the same river, and had to hoat it 12 miles up the stream. It requires eleven prime hands to man the boat [use, and when the river is not too high they make two trips a week, loading and unloading themselves. They bring about 1100 busacle at a load. The marl is landed at a spot below high water wark, and during the whole crop season two other hands and two carts are constantly engaged in hauling it to a place of security on the top of the bluff. At other times it is hauled directly from the a light, gray, sandy soil, of which the landing to the fields. There are howev- following was the analysis before marer 13 hands and 2 mules lost to the crop. ling, viz. My boat, which is a common pole boat, was built chiefly by my own people, and cost me about \$500, including their la-

bor. There have been incidental expenses to the amount of about \$200 this

or any of the marl here will make lime, of that which I have used has been cut from the face of the cliff with pick-axes. It fails down sometimes in fine grains, sometimes in masses. At every handling it breaks up finer, and exposure to the air assists disintegration. I do not whatever, but spread it as I get it .--Where it was spread last winter, an observer would readily discover it, and lnmps had been marled. At every working it

cannot be known. A difference was ap- I do not know what it produced. parent in this crop between the effects of that spread early in February and that spread in the latter part of April.

By the 224 of April last, I had marled 175 acres at the rate of 200 bushels to The one supposed to be the best was left with one, two, and three hundred bushels boat load, and contained 54 per cent. of carbonate of hme. This land has been in cultivation more than one hundred years. I have planted it myself 11 of the last 12 years, and sowed it in oats the other year. I have given it three light coats of manure, the last in 1839. It is

Water lost at	300	degrees	2	per	cen
Vegetable ma	tter	•	3		
Silica .			80		
Alumina			11		
Oxide of iron	•		2		

though it is an excellent cement. Much I am wholly unable to decide. Supposing | and certainly matured the earl est of any. on the marled and unmarled land, and de- | the 1st August, the rust commenced in it, ducting 5 bushels from the produce of and by the 20th of that month it had the each acre there will be 331 per cent. in appearance of a field after frost. Forms, favor of the ten best marled acres. This small bolls, and even the leaves dropped. nowever is all conjecture. The average Most persons who saw it thought it had burn or pound it, or use any preparation per acre of this whole cut was 18 bushels. I been cut off one half. I think myself it the measurement of all but the experi- suffered to the extent of one-fourth at as large as an egg, and occasionally much thon estimate, in which there is a liberal nearly 50 per cent. more than I ever had an animal that a good judge would condewhole been measured in the same man- average of its production for 4 other years. ner as the experimental acres were, the 1833 av're p. acre in seed 596 lbs. manured. is more and more mixed with the soil. produce would have appeared greater. 1 183 But I imagine it will be several years have had this cut planted in corn once 1840 before it is completely combined with it, before, but having been absent the whole 1841 and until then the full effect of this marl year, no account of it was preserved, and 1843

armers

I selected also and laid off separately 4 acres of cotton along the turn-row of the 75 acre cut of cotton. At the time 1 thought them nearly equal in quality, and the one supposed to be the best of these the acre. Of these I planted 59 acres in was left unmaried, and 1, 2, and 300 bucorn on the 17th March, 50 acres in cot. snels of marl spread upon the other three. ton on the 10th April, and 75 acres in h turned out nowever that the acre with cotton on the 22d April. These three 100 pushels was inferior to the average of cuts are in the same field, and adjoining, the cut, while the other two were far subeing separated only by turn-rows, yet the perior. 1 was deceived by the statics soils vary coasiderably. In the corn, I grown the year before. The two first laid off four separate acres along the turn- named acres being somewhat rolling, and row, as nearly equal in quality as possible. the year a wet one, they produced as good colton as the other two which were without mark. The others were marled dat. The unmarled acre was not much if any superior to the one maried with respectively. It was all of the same 300 aushels, save that there was a spot where fodder stacks had stood in 1838-9, which produced nearly double the cotton of any other spot of the same size in either acre, and added probably 30 los. to the amount gathered from that acre .--The mari on these acres contained, like that on the corn cut, an average of 54 per cent, of carbonate of time. This land is of the kind commonly known as mulatto so.l, and was clearly at least as the first year have been fully answered. early as the corn cut. It was certainly I did not calculate on any of those magiplanted by the Indians in 1740. The cal results which agricultural experimentfollowing was the analysis of it before ers so often look for, and so seldom real-

mental acres was made however by wag- least. But I have made on this cut this cessity of breeding till he is three score

3	tv ge	p. aci	e m se	eu 000 103	, manurou.
1	**	**	н.	435 **	
)	**		**	368 "	
1	**	**	**	336 **	manured lightly
2	**	**		840 "	marled.

I think the injury from the rust nearly or quite equal to the benefit derived from the favorable season. And that the increase from the marl was greater on this cut than on any other, because the earliest marled and most seasonably planted. The rust here was more injurious than in any other field, and I might have attributed it to the marl, but that the 75 tere cut also marled suffered least of all. I am inclined to think that the most advanced cotton was most affected, and the youngest least; and that murl had no influence one way or the other. It is worthy of remark, that while all my other cotton suffered from lice and the worm both, neither made their appearance on the marled land.

I have troubled you with this lengthened detail of my operations, because this being the first serious experiment with marl in South Carolina (that I know of), it may be interesting to those who have this earth within their reach, to know the particulars. From the facts I have stated, each one can form his opinion on nearly as good data as I can my own .--I can only add that my expectations for marking, for which, as well as for the an- ize to the full extent. I regard an in-4 5 labor even if the beneficial effect of the marl ceases then. But the experience 14.5 of all who have used it is, that it continues to improve the soil every year, until thoroughly disintegrated and combined with it; and that with proper culture it never declines from its maximum. Under these cocumstances, and with these hopes, I shall continue myselt to prosecute the business vigorously during the summer. I have hauled marl over 100 acres, and mave now at my landing enough to cover 300 acres more. My great regret is that I did not engage in the business sooner. I have long known Shell Bluff, and for some years had heard of Mr. Ruffin's successful introduction of marl into the culture of Virginia. But I had not read his . E-say on Calcareous Manures,' nor examined Shell Bluff, until the summer of 1841. The idea of obtaining marl from that spot was first suggest-Mr. Roffin's Essay, and an analysis of marls there, I determined to try the ex. it, received much encouragement and valuable practical information from Mr. Ruffin himself, to whom, in common with all other beneficiaries of this inestimable

hard limestone, and it is doubtful wheth- of the four bushels increased to the pecu- after all of them except the 75 acre cut, is "native stock?" Here is the grand try, and crossing them with males of an liarity of the season operating on the marl it soon appeared to be the oldest cotton, point; and they may as well dispute alien breed. Mr. Bakewell's good sense the increase from the season to be the same Immediately after the cold weather, about other species of animal which embraces varieties very widely different in their characters, as to attempt to decide that matter until this point is se'tled.

Easette,

If Mr. Randall is to be allowed. (and this is obviously his intention,) to take such animals as Mr. Rust's fat ox as specimens of the scrub or "native" breed, it appears to me he would be under no ne. gon loads according to the usual planta- | year 840 lbs. of seed cotton, which is years and ten, before he could "produce allowance for shrinking, &c. Had the made on it before. The following is the scend to put his hand upon." While on my late trip to the East, I saw this ox of Mr. Rust's. He is truly a most superb

animal. He has, both in shape and color, all the leading characteristics of a Hereford ; his shoulders are well set, his chime full, back short, loin and hips very wide, rump long, legs clean and sinewy, and he

is considerably heavier than any other animal I ever saw of so little bone and offal. At the time I saw him, Mr. Rust thought his weight could not be less than 3.700 pounds; and it had been ascer tained by repeated weighing, that his gain was at least three pounds per day. Not withstanding his immense weight, he was, from the justness of his proportions, very active. When lying down, he would get up as quick as a sucking calf.

I saw the man who said he raised this ox; and the history which he gave of him, was that the bull which sired him was "part Hereford." In this, both he and Mr. Rust agreed. I cannot see why this statement need be doubted; for according to an account which Mr. Bement has published, some Herefords were intro-

duced into this part of the country several years ago. But history and tradition out of the question, it appears to me there would be as much propriety in taking an animal which should show all the principal points in shape and color of an improved Short Horn, as a specimen of the native stock," as there is in taking this ox as such. An example of this kind would probably be regarded by the advocates of the Shor: Houns as not altogether fair.

Your reviewer, Commentator, in the Oct. No. of the Cultivator, in his remarks on Mr. Sotham's expression, given above, says Mr. Bakewell made a similar experialysis of the corn cut, I am indebted to crease of 20 per cent. as a very handsome ment in England to that proposed by Mr. rearn, and if it only does as well another Randall, "and it is presumable with no year, I shall at all events be repaid for my better cattle to begin with than Mr. Ran- ferring this, I presume, to the somewhat dall might probably find among what is ruder term- " hobby," although it means called the . native breed' in New York." pretty much the same thing. But the Now it may be pretty near true that truth is, that if I must have a hobby-Bikewell began to breed with cattle like most of my brethren-it shall neither which were not better than those which be of grass nor siraw; and as to the grasses some have called native in this country ; I have been content to rank them as those but from the best evidence to be had, it seems to me certain, that the animals with their culture. What I formerly said of which Bakewell began to breed, were not the Guinea grass I still think; and it is, only very good in themselves, but belonged that it will produce a greater weight of to a race whose superior excellence had green food-counting the four cuttings been long acknowledged. That under his master mind they attained still higher improvement, is neither denied nor doubted; but that the originals were altogether superior to our common cattly, is plain, if we admit testimony on this subject. The first great advantage which Mr. Bakewell possessed over any one who might attempt a similar experiment, contining hunself to the common cattle of this country, was the fixed character of his stock. Their leading points had been the same, without admixture, as far as we ed to me by my friend Mr. Dickenson, of learn, for ages. Hence he might calcu-Georgia ; and after a carcful perusal of late on a certain transmission of the qualities possessed by those he fi st selected, hereditarily, to their offspring. The oriperiment. I have, during the course of ginals of our common cattle have been brought from almost every country and district from which this country has ever received emigrants. These animals, so ally preferred to all others, for very wet heterogeneous in their character, have land. From all these facts, then, which generally been bred in an indiscriminate, I have noticed tor four years, I deem mytreasure, I owe a debt of gratitude which haphazard manner, until they have, in most cases, lost all marked resemblance to any distinct breed. Youatt, in the work on British Cattle, either clover, orchard grass, timothy, red stock from which Mr. Bakewell made his greater weight of green food than any of original selections. Under the head of them; that it will stand drought much the "Long Horns," he says: "In the better, and that horses and cattle eat it district of Craven, a fertile corner of the freely. But in all situations where the West Riding of Yorkshire, bordering on Messrs. Gaylord & Tucker .- 1 have Lancashire, and separated from Westmoreland chiefly by the western moor tent any farmer to cultivate no other of the Transactions of the New York Ag- lands, there has been from the earliest rericultural Society; and with none of the cords of British agriculture a peculiar and cellence should not prevent small experipapers therein contained have I been valuable breed of cattle." At page 189 ments with other grasses; for our maxim more pleased, than with the one on " Neat is given a portrait of a Craven bull, "sup- should be, that there is no stopping place Cattle," by Henry S. Randall, in which posed to bear about him many of the for those who wish to acquire a thorough tre many useful suggestions in regard to characters of the old breed." The por- knowledge of husbandry in allits branches. the improvement of our cattle, and the trait conveys an idea of a most excellent Let your friend then, procoed to make a production of a breed or breeds suited to animal; one of the best in the book; the small experiment with the Guinea grass body and limbs indicating surprising roots, which I now send you for him .---Mr. R. fears that too many are "too strength, with a rich, mellow coat of They should be buried in the earth until In 1720, it is stated that a blacksmith that would suffer little by comparison with by the name of Wilby, commenced the inches long, and plant them in well prethose of any other breed." In some re- work of unproving the Craven cattle, with marks on Mr. Randall's ideas, by Mr. some cows which he procured from Sir Wm. H. Sotham, in the Sept. No. of the Thomas Gresley. "Soon after this," says apart, and place the cuttings in each row, Cultivator, is the following rather ultra Mr. Youatt, "Mr. Webster, of Canley, at the distance of eight or nine inches. expression : "He [Vir. R.] may select near Coventry, distinguished himself as a The plants will require working the first the best [of the native stock] if he chooses, breeder. He, too, worked upon Sir year; but after that they will occupy the and breed them until he is of the age of Thomas Gresley's stock. He was at con- ground to the exclusion of any other man, and my word for it, he will never siderable trouble in procuring bulls from growth, and will bear cutting at least four breed a beast that a good judge would Lancashire and Westmoreland; and he is times a year. In one season I cut it five said to have had the best stock of cattle times. With sincere wishes for the suc-There may be a difficulty, I confess, in then known." At pages 191, 192, it is cess of your paper, deciding such a proposition. In the first said, "improvement had hitherto been much the same way. Although planted place, the premises should be understood attempted to be produced by selecting fe-

about the merits of British sheep, or any led him to imagine that the object might be better accomplished by uniting the superior kranches of the same breed, than by any mixture of foreign ones. On this new and judicious principle he started -He purchased two Long Horned heifers from Mr. Webster, and he procured a promising Long Horned hull from Westmoreland. To these and their progeny he confined himself." * * * * Many years did not pass before his stock was unrivalled for the roundness of its form, the smallness of its bone, and its aptitude to acquire external fat, while they were small consumers of food in proportion to their size."

> The object in making these quotations s to show that the ancestors of Mr. Bakewell's stock had been considered excellent long before he began his career as a breed.

> In what I have said, I disclaim any intention to "underrate the native stock," but have been influenced only by a wish that the public may be set right in matters of fact.

SANFORD HOWARD.

Albany Cultivator.

From the Southern Plonter.

GUINEA GRASS.

Along with some grass roots, for which we are indebted to the public spirit and politeness of Mr. Garnett, we received the following note :

Messrs. BOTTS & BURFOOT:

Gentlemen,-I now send you the Guinea grass roots which your North Carolina friend requested you to procure for him ; and, with your permission, I will avail myself of this occasion to publish once more what I think of this grass, as I find that some of my good friends have attributed to me opinions which I never entertained. Not that I consider these opinions at all important to any of my brother farmers ; but having once published them, and perceiving that some persons have thereby been induced to make a trial of the Guinea grass, I owe it both to them and to myself to guard them, if I can, from forming an erroneous opinion on the subject.

The good friends to whom I allude, we called it "my favorite grass," pre have done who have most experience in which it will certainly bear, at an average weight of between two and three feet, in high, dry land, of ordinary quality, than any grass of which I have any knowledge. I infer from this, it will yield a greater quantity of such food, on high, dry land, of any quality. I have also said, that it will stand drought better than our other grasses, that horses and cattle cat it very freely, for I have seen them do so. How it would compare with other grasses in nu. tritive properties I do not know, as none of them, I believe, have yet been analyzed in this country. It is certainly a coarse grass, if suffered to reach a greater height before cutting than I have mentioned, and therefore less suitable for hay than the grasses commonly used for that purpose. It is also hard to extirpate, but not more so than the red top, which is generself authorize.l to say of the Guinea grass, that in all high, dry, and even sandy soils of ordinary quality, such as are unfit for climate and soil are well adapted to clover; orchard grass, and timothy, it might conkinds. Still, the knowledge of their exthe ground ceases to freeze in the spring. Then cut the roots into pieces two or three pared land, between two and three inches deep. Let the rows be twelve inches

year. During the year ending on the 8th of November, there were 85 trips made and about 93,000 bushels brought

up. I think I can safely calculate on bringing up 100,000 nushels per annum hereafter, with the same force. I men. tion these facts that every one may form his own estimate of the cost of procuring mail under similar circumstances. My calculation is that it costs me about two cents a bushel delivered on my bluff .--To one having mart on his own premises nearly the whole of this expense would be saved. I am enabled, by omitting to open new land, to haul out and spread this marl, without interfering with other plantation work, or lessening the number of acres planted per hand. In hauling out I have not been able to do as much as they do in Virginia. Mr. Ruthin, the author of the maring system, hauled 24 loads of 51 bushels with each cart per day a distance of 647 yards; I have done stalk in dry and rather windy weather, but little over half as well. I use mules however, and land being level carried 61 bushels at a load. I found the mules could not stand trotting back with the empty cart. The marl weigns about 105 lbs. per bushel. My land was laid off in squares, so many to an acre, and a load dropped in each square. It was spread by hand; each negro taking his square, surunk as much as it would in the field. and carrying his marl on a board or in a small tray. A prime fellow can spread an acre in a day. But it is a hard task, and counting the gang round I have not averaged over half an acr. for each work. er. The marl spreads best when damp. lowing was the result : It will then yield to the hand, and lumps

are in general easily crushed. Shell Bluff is a bold chiff on Savannah river, over 200 feet high and in some places more than 100 feet perpendicular. Professor Vanuxem, who examined it some years ag , [see Farmers' Register, vol. vii. p. 70, and also vol. x. p. 487. discovered 14 varieties of mark varying in quality from 37.2 to 93.4 per cent. of carbonate of lime. In using the mart l have excluded the inferior as much a possible, and have not found the very best in any great quantity. I tested the quantity of carbonate of lime in one specimen taken at random from each boat load brought up this summer, and found the average of 34 loads to be 62 8 per cent. varying from 51 to 77. In every specimen there was a small proportion of of oxide of iron, and clay and sand, us ually in about equal quantities. There were, no doubt, other component parts which I did not ascertain ; but I satisfied myself that there was neither gypsum nor magnesia. The marl presents various appearances, being in color white, brown olive, yellow, and violet, and in consist ence from sand to soft stone. Some o it appears to be a concretion of shells from a size scarcely visible to the naked eye to an inch in diameter. There is no whether it would be fair to attribute any

2

This cut was in cotton last year, and my expectation was that with common seasons it would produce 12 bushels of corn per acre. And had I not kept the unmarled acre as a test, I should have set down all over that quantity to the credit of the marl. The corn came up hadly, and suffered by the birds. The four experimental acres were cultivated precisely as the rest of the cut, and were distinguished only by the posts which marked the corners of each acre. From the first however the marled corn exhibit. ed a different appearance. It was stouter and of a much deeper color. As the season advanced, the difference became greater. The marled corn was as dark a green as swamp corn usually is. The fodder was pulled on the 3.1 Augus!, and after hanging two days and a haif on the weighed as follows :

Increase. Per cent.

Unmarled acre 250 lbs. Marled, at 100 bushels 285 " 14 35 lbs. " " 200 " 314 " 64 " 25.6 " " 3)) " 261 " 11 " 4.4 The corn was gathered on the 24th of October, being h noughly dry and having There appeared to be little or no difference in point of soundness. It was shucked clean and measured in a barrel. The unmarled corn shelled out 2 quarts less to the barrel than the marled. The fol-

	ioning nur inc room				
			In	crease. I	er cent
Ĵ	Unmarled acre	17 1	oush.		
1	Marled, at 100 bushels	21	**	4	23.5
	200 .	21	**	4	23.5
	3)0	18	**	11	8.8
6	From this it won	hld	app	ear tha	t 100
	bushels of marl was	ase	fic	ac ous a	as 20 .
	and perhans in such	lan	das	thissue	:h may
	ha the fact It supe	ars	also	probal	le that
•	and the later. It uppe	nero	is	too mu	ch. 1
	SOU DUSTEIS TO CIC.	to	that	this la	stacre
	ought nowever to sta	the		tro au	d that
	had a sight sink to	1 1e	1,61	much t	hinner
	the slopes around	1 4	4	in ici, i	ationte
	than the average lan	١.	1.1	ese con	Strutte
	about one-fifth of th	e a	c.r.,	and we	re evi-
	dently injured by	the	ma	rl. 1	was a
	had selection for th	e l	ieav	iest ma	arning;
	but at the time it	wa:	8 111	ade I d	id not
	suppose, judging by	th	ie ra	ates at	which
1	they marled in Virg	inia	, the	at 300	oushels
•	would injure any la	nd.	M	ly fear	now is
2	that 200 bushels ma	y p	rove	; too m	uch for
	soil like this; and	I	have	e accol	dungly
ł	determined to put	only	y .5	0 bush	iels on
1	the acre hereaftsr, i	inti	11:	see its	further
\$	effects. This has	be	en	a rema	arkable
,	productive season fo	or c	orn	. I the	ink the
•	unmarled acre in th	nis .	cut	made a	t least
ſ	5 bushels more than	it it	woi	ild hav	e done
s	of an average year.	I	pres	sume th	e marl.
ł	or acres have don	ie s	0 1	ikewise	. But

he kindness	of P	rof. F	llet;	
Water at	300 (legree	3	•
Vegetable	mat	ter	•	• 2
Silver .				

74 Alumina 4 Oxide of iron This cut was not planted until the 221 April, because it could not be marled before. A dry spell occurring im nediately

after, at the end of two weeks very little cotton had come up except in the marled acre in which there was about half a stand. My overseer becoming alarmed in my absence replanted the whole, and threw out the whole seed wherever it had not come up. This was done on the 6th May, so that the crop of this cut dates from that period, which is at least a month later than I should have preferred. For my experience is that early cotton, like early corn, ss almost always the best. I consider the two weeks s art which one half the unmarled acre obtained in this instance as of considerable consequence to it. These early stalks could be distinguished until the bolls hegan to open. The difference between the marled and unmarled cotton was as obvious as it was in the corn. The leaf too appeared broader and the stalk stouter from the first. The following was the production of these four acres. I state the pdoduction of all, though that of the 1 and 200 bushels acres ought not to be compared with that of the other two, on account of the relative inferiority of the soil.

The unmarled acre 1111 lbs. in the seed. Murled do at 100 bu. 846 "

66	**	at 200	44	1003	**	**
**	**	at 300	"	1315	56	**
Th	e di	ference	, be	etweer	the	unmarle
acre	and	that wi	th	300 b	ushe	ls of mar
was 1	7.7	per cen	t. i	n favo	or of	the latter
It wo	uld	have be	en	great	er pe	erhaps an
athor		- than t	his	white	h ha	is been al
orner	yea	than t	C.	- autte		corn Th
most	as ta	vorable	10	Cotto		1. 75
avera	ge p	roducti	on	of the	who	le 15 acre
was f	966	lbs, per	c a	cre.	I hav	ve had the
		on 10	of	the la	st 12	vears ; 1
car n	i cei			1	1 +	Iollowin
corn	1, a	nd in o	ils	I, an	aine	- IOIIII III
is a st	later	nent of	ii	s produ	ictio	n of cotto
for 6	of t	he 10 v	ea	r-; th	at of	the othe
Vante	not	having	to	ea pr	eser	ved.
1 113	11.10					

833 :	iv'ge p	. acre	in see	d 731 lbs	s. manured lightly.
834		**	**	784 "	
835	**	**	**	951 "	manured light[y.
736	**	**	**	451 "	
840	**	45	44	497 "	
1841	**	**	**	500 **	manured.
1842	**	**	**	966 "	marled.

The other 50 acre cut of marled land was planted in cotton on the 10th April. It came up in good time and was a fine stand. This is also a light gray soi', with less clay than the mulatto land, and less sand than the corn cut. It is probably as old as either, and has been cultivated in 10 days later than some other fields, and and admitted by the parties. What, then, males from the native stock of the coun-

cannot be easily cancelled. I am, my dear sir,

With great regard and esteem, Your chedient servant, J. H. HAMMOND HON. WHITEMARSH B. SEABROOK, Pres't of the State Agr. Soc.

" NATIVE," AND OTHER CATTLE. read, with great interest, the first volume

our climate and purposes. prone to underrate our native stock," hair. which he thinks "has produced animals condescend to put his hand upon."

I remain, gentlemen, Your obedient servant, JAMES M. GARNETT.

