

THE INDUSTRIAL AND EDUCATIONAL INTERESTS OF OUR PEOPLE PARAMOUNT TO ALL OTHER CONSIDERATIONS OF STATE POLICY.

## Vol. 16

.ure. Agr LLING TERBACES LEVEL VEP &

ies to Mr. Coolman's Let-Mr. Blackn / Last Week. C /The Progressive Farmer. Mr. Co. dan is right when in his rejoinder he says that the mode of of land terracing is an important matter. It is not only the most im portant subject now, but the most important one that ever has been or ever will be before the hill-tiller.

NATURE S LEVELING PROCESSES. It is an unalterable decree of fate that in the fulness of time the hills and mountains shall be leveled and that the sea shall devour all things. Every shower that falls to some extent carries out this inexorable managencies and ordered downward. against the terrace Man is as helpless to wholly stay the hand of nature in thus disposing of moment that he is master, lessen the hills that sloped fully 221/2 degrees; operation of this law of fate. At that is, one fourth the way up from this respect; and by this means get not less than 30 degrees. more food or more tinsel. For while only philosophers may bother them selves over the ultimate submersion of the world, the practical man is deeply interested in the slow but ceaseless means by which this is being brought about. He is interested for the reason that this attrition, this washing off takes first of all that onter film in which alone he can wir faber first the soil, bot it bases first of all the essence of that soilthe elements of fertility. THE VALUE OF TERRACING RECOGNIZED The future of man, certainly the fature of the dweller in hilly or roll ing regions depends upon his success in conserving the soil. Mr. Coolman is much alive to the importance of all this, as I am. As I understand it, we also agree as to the most effect. ive mode of effecting this wished for and. We are only at variance as t level terracing to the lengths neces sary to attain the utmost benefit from it. I believe that Mr. Coolman will properly built. admit that a hill side in which the system of level terracing that I prac tice and advocate has been carried out will gain in fertility faster than one with falling terraces, which carry off the water faster than the level terrace, though, of course, very much slower than it would go with Moterracing at all. What he questions 18 the practicability of maintaining, or rather of establishing-for once established and the terrace crests strengthened by settling and one Jear's-or more-growth of grass and weed roots, I presume that he would consider them safe even on land as hilly and sandy as that he has to contend with. BUT WHICH IS THE BEST METHOD? Now while I have no doubt as to the entire practicability and im mense and far-reaching results of level terracing, there may be, and conbiless are, regions in which it presents such difficulties that they Cannot be at once overcome with the implements at hand. Mr. Coolman's region seems to be of that nature, And if not thoroughly done, the would surely follow. Water in its wild effort to get quency and duration of drought? down hill is a dangerous thing, it is true. Y this not quite as hard to DOL.

shifting dirt down hill to build the loss of soil and a still greater loss of terrace. Say that this depression is fertilizer, which is carried down hill only twenty feet broad That de with the water to a greater or less pression represents a basin to hold extent off with the water as it flows the water. Say that this depression along the depression above the ter

averages twelve inches deep throughrace on its way out of the field. out its width of twenty feet. How I have for fifteen years tested the many inches of rainfall falling on the space of thirty yards above it the level terrace. While there has will it hold without overflowing? not yet been time to perfect the level Arithmetic says nearly three inches. system, which is only attained where A prodigious rainfall for ten hours. the land between each terrace is con This allows nothing either for what verted into a level, or rather a flat the soil would absorb, which in a surface with a little tilt up hill, still long rain would on average soil be the superiority of the system in the probably one inch. conservation and improvement of The soddier the soil the greater soil is already manifest.

would be the amount of water to soak in. I find that owing to the fact, it is as easy to maintain terraces on soddy as on stiff soil. The counties prompted me to write the date Downward, ever downward, stiff terrace holds better, but the article on terracing. Of the correctis washel the earth. Gradually the stiff soil above the terrace absorbs ness of the theory and the vast benerocks are exposed, crumbled by less water and leaves more to come fit that would follow the perfection of the level terrace system, there can be no question. Still it will le

A PRACTICAL TEST.

I need only repeat that in the best for each farmer to adopt it in a her own as he is to arrest the motion floods of May, 1901, I had new and tentative way-to adopt a little of it of the planet on which he finds his therefore necessarily weak terraces at the time, doing thoroughly what brief home and his grave. Still he that stood day after day for weeks is done, and extending it as circumcan over the small area over which an enormous downpour of rain. stances justify. he has control, and for the hurried Some of them were on drifting, sandy

# Raleigh, N. C., January 21, 1902.

HABBY FARMER'S TALES.

LIX Jorrespondence of The Progressive Farmer. Mr. C .- "I tried your plan last year (1901) on planting and fertiliz ing sweet potatoes and such a crop I have not had in my thirty years falling terrace and for three years farming! One quarter of an acre

made more than two acres planted after the old way." RAISING BIG SWEET POTATO CROPS We told Mr. C that if he would use sulphate of potash 100 pounds, acid phosphate 200 pounds, and good manure 50 loads to each acre, a crop of 300 bushels might be expected. I told him to try it, and if it did not pay that I would pay for the fertili zer. We had tried it too many times not to know the result. We should say here that a load of manure here means a dump cart load, which is

about one-third of a ton. Mr. A. planted some new land late in sveet potato cuttings, on part of the land he used a high grade of 600 pounds per acre. Result on no and 4,000 pounds of milk. fertilizer, 50 bushels per acre; fer tilized, 250 bushels per acre. Yet thousands of just as good men as these are plodding along in the old

# Live Stock and Dairy THE LIVE STOCK INDUSTRY IN THE

SOUTH. V. Building Up the Dairy Herd.

Correspondence of The Progressive Farmer. The yield of the North Carolina milk cow annually is about 2,000 pounds; that is the average for each animal in the State. This means that we have a great many that produce less than this quantity of milk and a great many others that produce above the average quantity.

BEGINNING TO GRADE UP. It is possible to take any grade in this aggregate and develop it to profitable production. This is unnecessary, however, because every cow is not needed for immediate improvement. Only a few may begin

this year to develop and improve the land; consequently they will have the advantage in getting for their beginning stock fairly good animals commercial fertilizer at the rate of or those that produce between 2,000 offspring from the most profitable

> healthy animals, with good coats of expenditure of money. I know of thin fine hair and fine soft skin; no field of activity that offer greater have a marked wedge shape as de- opportunities for young men than scribed in the last article; and show this. You can start on little capital a fairly good dairy type. One can a few acres of land, a few cows and readily secure in any locality, good a good bull. Your herd doubles milkers, that not only furnish good each year and becomes more valuable. quantity, but a good quality of milk | Weed out the light milkers and poor as well. Let this be the stock to start with. They are grades or mongrel stock, perhaps, but because they are good milkers they will be the plan and the suggestions.

There would be no 3,000 pounds stock resulting then, but a resultant force between 3,000 and 10,000 or something like 4,000 or 5,000 or 6,000 pounds in the offspring. Thus the future breeding would increase in the same way.

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This is no theory, but plain business, common sense. If we apply it and practice it along all lines of live stock, it would mean millions upon millions of dollars to the farmers in our State. It would develop the dairy industry like magic in a few short years ; the lands would improve; farming would become exceedingly profitable; the boys would remain on the farms ; the farm homes would once again take on the culture, the splendor and regal aspect that was theirs not long since.

HERE MONEY IS TO BE MADE.

It follows then that the building of a herd of dairy stock is the use of a good sire with milk inheritance in his blood and then the selection of cows. This practice is easy and This beginning stock should be simple. It is not the result of much butter-producers; and keep the best stock. Not many words are needed to show the force and the truth of

any rate, he can with some approxi horizontal to percendicular. In a mation restore natural conditions in few instances I believe the slope was

> Such abnormally unfavorable conditions coming right on the fresh. soft terraces gave some trouble as was apprehended. But few, if any properly run, and completely finished gave way.

If a very wet season like that ul 1901 come while the terracing sys tem is only partially carried to completion some of the crop rows in grow bread-the soil. And it not the depression above the terrace will "drown." Batevery gallon of water that is held there to soak in means sediment to enrich the soil. Finally, when after some years the terracing process is completed and the sides of each hill and slope converted into a series of stair steps, the flow to each step tilting a little up hill, all rains but the very hardest would every drop of them be absorbed. If there

was more than the terrace with the depression on its upper side and the ridge around its lower side could whether it is practicable to carry hold, then it would flow over the terrace, not in a torrent, but a sheet even and thin in proportion as the terraces were correctly run and

> STOP WASHING AND LEACHING OF FER TILITY.

The benefits that would accrue from a thorough and general system of level terracing are great and manifold beyond conception Not only would the washing away of soil and even the leaching out of fertility be practically arrested, but every drop of rain that fell, instead of robbing the soil of fertility, would have the tables turned on it, and be robbed of more or less of the ammonia it gathered in its downward flight through the air. This ammonia the soil would absorb.

CONSERVE MOISTURE AND FIGHT DROUTHS.

conservation of moisture, effected by | to 3 cents per pound, and other prod. the absorption of so much rainfall, ucts except cotton in proportion we

Vance Co., N. C.

Washington dispatch -The epi demic among the horses in Swan Quarter continues and is nearly as bad as when the mo-quito was doing his work. State Veterinarian, Dr Tait Butler, says the trouble is located in the brain. It attacks horses very suddenly and unless a remedy is found Hyde county will lose all its horses.

O. W. BLACKNALL.

LET EACH FARMER MAKE A SMALL TEST

dition of the farmers in our hilly

A sincere desire to better the con

#### FARM NOTES FROM WARREN.

korrespondence of The Progressive Farmer. The new year has come with sevface eral beautiful days of sunshine The farming people around here have started off, it seems, in good earnest, determined to do their part in the way of winning success this year. Some have already started their plows to running.

It seems from the many conversa tions that we have with the farming class, that an overwhelmingly large crop of tobacco will be planted this Vear

The chair factory which has recently been started in Warren is buying much oak and hickory timber. While it may not net very much money to the owners of the timber, it is giving employment to a class of people that probably would have suffered but for this labor.

There is another call for labor around us, and that is for hands to get cord wood. With both of these and saw mills, our people will tide over until farm work opens up more plentifully. RURALIST. Warren Co., N. C.

The unsatisfactory price of cotton this season and the high price of other farm products should teach our farmers, who have not already learned it, an important lesson-that of producing, as near as possible, ders. Make him work for you. everything consumed on the farm. With corn at a dollar a bushel, meat and lard 11 to 12% cents per pound, Nor is that all or nearly all. The loats 75 cents per bushel, peanuts  $2\frac{1}{3}$ 

way and losing money every year.

SMILE WHEN MEAT IS HIGH Just notice the eff-ot this commercial fertilizer had on that new ground which was full of humus. Do yon see the point? Plow that old field a little deeper every year and get all the vegetable matter that you can in the soil and then apply your guano and make crops that will profitable from the beginning. astonish your neighborhood. Make your barns and smoke houses full so that the higher corn and meat goes the broader will be the smile on your

GET GOOD SEED-IT PAYS.

proved the advantage we often find in the use of improved seeds. We had a good variety of cotton, but the new seed were recommended so highly that we decided to try them. The result was that it put five dollars in our pocket for every one we expended for new seed. This is not the first time we have made money none for sale. Besides, we do not propose to give any free advertising in these columns.

READ FARM PAPERS.

have had in farming was obtained by reading agricultural journals and the bulletins from the Experiment for the farmers' benefit. A study of these during these long winter nights will help up all in our work the com ing spring and summer. The Bulletins cost you nothing excepting the one cent paid for a postal card to

order them on. You are taxed to support these papers; then do not feed your horse and let him stand up in idleness while you walk to town and lug your fire wood on your shoul-

Columbus Co., N. C.

Cornell University.

I have been much impressed, the last few months, by the great dekeeping all arable land more or less cannot afford to raise cotton at pres mand for young men of education, home and keep a record of the practical experience and energy by amount of milk they give; then test The farmer's wife with many the agricultural labor market. Re with the Babcock tester to determine family cares and therefore little quests for foremen, superintendents, the quantity of butter fat in the time to devote to poultry, should experimenters and teachers at the milk that each gives. Then get a make the production of eggs her Probably the largest crop ever present time greatly exceed the sup bull; a good one, a pure-bred one; chief aim. Keep a big flock of hens made on the A. B. Nobles farm, near ply. Is not this a hopeful sign? It and one that had a mother that gave the year round, no matter if some of McKendre church, was made last is to be traced, it seems to me, to a large quantity of milk. Put your the hens are two or three years old. year by Frank Gorham. On 225 improved sentiment in our agricul- money that would go to fancy cows The healthiest breed I know is the tural community, the changed atti- in a good bull with performance back Brown Leghorn .- F M. W tude of capitalists to agricultural en

I would urge the beginner to

KEEP & RECORD OF THE MILK, so as to know exactly what each animal is doing. This will then be a valuable aid for the selection of

future animals for the herd. The our ootton crop the past season record will tell which are the, best animals in the herd. You are anx ious to know this for the reason that offspring from the best milkers will them-elves inherit the characteristic of producing good returns in milk. The great factor in building up the

dairy herd from common stock lies in THE BULL THAT HEADS THE HERD.

If he comes from a line of good this way. Now, do not write a lot milkers and good butter producers, of letters to us for seed, as we have his offspring will have that same ability. Inasmuch as one half of the future herd will contain the blood of the sire that heads the herd, it is

Brother farmer, all the success we the herd. I would rather have five poor cows and an exceptionally fine, well bred and purely-bred bull to start a herd than five exceptionally Stations. They are printed expressly fine cows and a poor bull. Under no circumstances should the dairy farmer use a grade, or cross or scrub bull. To do so would require years of labor and pains to counteract this evil influence of such breeding.

> While I would always advise the purchase and selection of a pure bred sire with performance back of him, I would not advise the beginner to purchase pure bred cows. They are in the first place too costly for the average farmer and too delicate for the beginner to handle. This would be the suggestion that follows: Go about your neighborhood and purchase the better class of good milk ers that are available. Take them

We need 10,000 dairy herds in this State, so do not fear that there will be no room for you.

CHARLES W. BURKETT. N. C. A. and M. College,

An old bee keeper says that the best thing for a bee sting is to rub on a little honey, which will relieve the pain at once. It is also said that if a little honey is rubbed on the hands the bees are much less liable to sting the person handling them

### COWS AT THE PAN-AMERICAN.

As might have been expected, the distinctively dairy breeds came out ahead in the test at Buffalo. Guern. seys came first with a profit of \$220 37 in butter for six months. Jerseys were a close second, with \$214.51 in butter profit for the same period. beef friends would have us think dairy animals, showed up but \$164.77 in the same time, and the Dutch Belted were at the tail end of the list of ten breeds, with but \$111 96 to their credit. Guernaeys and Jerseys are bred for a special purpose, and they "get there;" the Dutch Belted cattle are bred for a fancy. They get that particular band of white around them and that has nothing to do with the purpose for which cows are bred, and, of course, they do not "get there" in a dairy contest. Even machines that are contrived to do two kinds of work seldom do either as well as the machines that are built for one particular job, so the cow that is bred for a particular purpose will always accomplish that purpose better than one which is neither one thing nor another .-Practical Farmer

safe to say that the bull then is half The Shorthorns, which some of our BUT AS TO THE COWS :

HARRY FARMER.

A DEMAND FOR LEADERS.

of him.

dry as is now the case in summer, Roanoke Chowan Times. would greatly lessen the effect of drought when it came. But would drought be as apt to come? Would not the conservation of moisture, far surpassing in the aggregate that of grave results that he prophesies any system of forest reserve prac ticable, materially lessen the fre-

WHERE FALLING TERRACES FAIL. Carb as Mr. Coolman thinks. If terrace is far better than none. The hand sho as much, a three foot fall objection to it is that it is only a from one terrice to another will not makeshift-a half-way measure. Is only a one horse (mule) crop, and is essential to successful farming place the onver thirty yards apart is not progressive. It cannot, like As s rule they are much closer. Mr. the level terrace, be made more and Coolman is mistaken when he thinks more effective every year till perfecthat a to manutes' rain would over- tion-practically speaking-is at flow a therace two feet high. As a tained. Where level cultivation of 8 acres in corn, 32 barrels of corn Inster of fact, a ten hour rain will crops is followed, which is, I believe, and three big stacks of fodder were conceded to be best, and which is gathered.

MEAVY BAISS AND LEVEL TERRACING- essential with strawberries, my crop, Let's sure. A terrace two feet high the water has a clean sweep down- wards' record The Southerner will presupposes a corresponding de- ward across the croprows till arrested be pleased to hear from him.-Tarpression above the terrace made in by the terrace. This means a great boro Southerner.

moist instead of hard, washed and ent prices to buy these things .-

# PROFITABLE FARMING.

acres he made 215 full bales cotton, with abundance of corn.

He had a cropper that probably ex-As before admitted, the falling ceeded any one in the county, or the part of the business man of the State for that matter. His name is fact that a trained foreman in agri A. E. Edwards Mr. Edwards had here is what he harvested :

> On 17 acres in cotton, 27 bales, averaging about 400 pounds; from 6 in the number of agricultural acres in tobacco he sold \$567.76; on

If any one man can beat Mr. Ed

#### WHY THIS PAYS BEST.

terprises, and to the appreciation on a plan: Suppose you have a good they can get it "cheap" That cow that produces 3,000 pounds of which one does not need is dear at culture, as in many other industries, milk each year. According to the any price. Others will answer the law that like begets like, the off- ads. found in trashy sample papers Another feature worthy of note, and a very important one, is the increase spring of such a cow would also received so often through the mails give 3,000 pounds of milk. And Great pay for agents. Free this and schools. Not only are some of the such would be the case if the bull free that. Guessing missing words, used had also come from a dam that etc. They are one and all swindles academies and high schools considerproduced 3,000 pounds. There would and I do not understand how seeming the question of adding agricul be no improvement to follow. But ingly intelligent people can be so ture to their courses, but agriculsuppose instead of the 3,000 pound easily caught by what is manifestly tural high schools are being equipped bull, you had secured one that came a humbug. These firms are just in many parts of the country. All this bespeaks great things for the from a line of breeders that produced wanting the names of fools to sell future of the farmer -John Craig, annually 10,000 pounds of milk them .- Theo. Cranz, Fisher, Ore.

Many make the mistake of buying Let me illustrate the result of such ing what they do not need, because