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INCREASING HAY YIELD. Correspondence of the Progressive Farmer. It is an astonishing fact that the ma jority of Southern farmers spend at least three months out of every twelve

killing their very best friend in their efforts to get rid of the natural growth of crab grass that grows so luxuriant all through the South on all well-cultivated and fertilized land.

It is trite saying that it takes brains to run a farm, and some men who are farmers are totally unsuited to their calling, and others if suited are so hedged around with old notices and projudices that they will never leave the old ruts and system that were in vogue sixty or more years ago. The majority of farmers work very hard and accomplish all that they think it possi le to do in a certain time and during the season at their disposal, but if with this hard work they are unsys

Lecturer-J. T. B. Hoover, Elm City, tematic they are simply throwing away so much time and energy. This fact will be very forcibly impressed on any one travelling through some sections of our Southern States in the fall of the year on seeing so much valuable hay left to rot in the fields, when it might have been saved and used to advantage either for market or feeding at home. I am sife in saying that in this county (Walton) alone last fall there were ten thousand tons of good crab grass hay left in the fields to decay and rot all for a little push and energy to cut it and cure it, and all through the

RALEIGH, N. C., JUNE 16, 1896.

WEEKLY WEATHER CROP BUL LETIN

> For the Week Ending Saturday, June 6, 1806.

CENTRAL OFFICE, Raleigh, N. C. The reports of correspondents of the Weekly Crop Bulletin, issued by the North Carolina Station, for the week ending Saturday, June 6th, 1896, indicate in general fair progress in the growth of crops and in harvesting. The temperature was below the normal every day, excepting Sunday (May 313) and Saturday (June 6th), but the deficiency was not excessive and did little damage, except to retard growth of cotton and cause a little yellowing. The rainfall was considerably above normal, and, though too much rain oc-I could go on for quite a while on curred at many places, yet the thorough this hay question, but enough for the breaking of the drought almost every present. Will come back to it again where throughout the State compensoon, as it is a very important one, and sates for any other disadvantages. we are now at the season of the year There was less than half the normal when we ought to be preparing for it

amount of supshine. EASTERN DISTRICT .- The past week has been cool and cloudy, with fre quest rains, setting in fair and warmer on Saturday. It is still dry over limited portions of the middle coast, but sweet oil on the heads of the little chicks in general, amplerains have fallen over the district this week. In the north, from Halifax eastward to Chowan, and especially over Gates county, there was too much rain, causing corn to urn yellow and drowning some on lowlands, besides making crops very grassy and preventing farm work. In grown on land that is too wet to be got the south gentle rains were just suited into condition for other crops, because for growth of crops, which progres ed it is one that will succeed better with | rapidly here and are clean. Corn generally is fine, much of it in silk and tas el, and being laid by. Cotton in south 1 oks well and clean, good stand, first forms reported June 2d; in north it is not so good on account of cool weather. Lies reported on cotton in several places. Transplanting tobacco over, crop growing well, but worms have appeared in abundance. Farm ers almost through setting sweet potabuck wheat to fill, except a piece that toes. Shipments of Irish potatoes and grew in an orchard where the tree beans proceeding. Irish potato crop shade doubtless prevented the crop | get erally poor; fine tops but no tubers. it is very much increased by judicious blasting, as it would in July if filling Cutting wheat and planting field peas now in order. Blackberries and huckleberries now in market. CENTRAL DISTRICT -Cool and cloudy weather prevailed, with plenty of rain and deficiency of sunshine until Saturday. Over most of the district the though buck wheat should not be sown | rain fall was gentle and beneficial, but until about the first of July, it is best heavy rains washed lands in a few to have the ground plowed two, three counties (chiefly Guilford and Ran or more weeks before that time, so that | dolp!). Grass is increasing among the seed when sown may have an even crops and farmers are getting behind with their work, but a week of fair drained clay land is every year sown weather will remedy this state of with buckwheat, because the ground offsirs. Corn is extra promising, and cannot be got ready for any earlier is being laid by slowly. Harvesting wheat is in full blast, with crop short but heads well filled; some fields were tangled by rain and wind, and some damage by chinch bugs still reported. Outs apparently not so bad as expected, the line of his standard crops when and spring oats improved during past seasons are good or prices are right, two weeks. The greater part of the but when the unexpected happens only | cotton crop continues in good condition. atout all chopped, and forming sq a es awake are prepared for the emergency. | in south; on light, thin lands cool nights The winter may have been a little caused a little yellowing Lice reported at many places. Tobacco nearly all transplanted, except where drought prevented (Forsyth county), where set sibly entire loss. This seriously effects | ting is progressing, crcp growing well. the profits of the year's farming. But Irish potatoes poor. Sowing peas on stubble land. WESTERN DISTRICC .- Fine raiss occurred on the 31 and 4th, breaking the drought almost everywhere, and great ly benefiting all crops. Oats were im-The extreme dry weather in the in- proved by the showers though much fourths grain ration gained more than terior last year will undoubtedly have of the crop has been injured beyond those fed a full grain ration and grass, recovery by the drought. Corn and cotton are doing finely since the rairs There are many crops that can be It was a fine season on tobacco plants sown or planted that will make extra recently set out, and also on potato slips. Rain assisted greatly in bring

in a few minutes. Let the pole be oiled or painted, and be kept under shelter where it will not spring by being exposed to alternate rain and sunshine.

Now, in order to measure an acre of land, multiply the number of rods (or the lenths of the pole) on one side of the plot by the number of rods on the end of the plot, and divide the product by 160, the number of square rods in one acre. For example: A plot eighty rods long and two rods wide will make one acre. A plot forty rods long and four rods wide is equal to an acre. A plot twenty rods long by eight rods wide will embrace 16) square rods, equal to one acre. A plot twelve and half rods on each side, if the lines run at right angles, will embrace (approximately) a square, or 156 : quare rods. When a plot is not lined out at right angles, it (the square plot) will not em brace as much ground, although the length and width are the same as there is in the square plot. A fourth of an acre, or even a tenth part of an acre may be lined out with the angles so acute as to measure as many lineal feet as the length and side of a square acre One can make a rude square of two pieces of lath that will enable him to line out land at a right angle, unless it is important to proceed with the accuracy of a surveyor, indicated by his compass.-- Massachusetts Ploughman. CHEAL.

We hear much complaint of cheat in winter oats. This is always the case when the crop is killed out by the win ter frosts. Do not blame the seed oats. Neither oats nor wheat ever turn to cheat or chess. The cheat seed was in the land or has been sown there with some crop at some time and only wanted a favorable opportunity to ger minate and grow. This is efforded it by the killing out of the oats and wheat, and it now asserts itself. It is as distinct botanically from cats and wheat as are the other grasses from the same grain. Cut the crop down whenever it appears before it seeds, or it will at some future time again assert its right to grow and plague you.-Southern Planter.

THE DAIRY. BUTIER PRODUCTION.

Correspondence of The Progressive Farme. For a good many years there has been a tendency towards the factory or creamery system of butter making that the belief has become quite common that more butter was being produced in this country that way than on farms. But the following from "Statistics of the Dairy" by Henry E. Alvord, Chief of the Dairy Division. gives information on the subject that will surprise many. It is as follows:

"The most noteworthy fact in connection with the production of butter on farms is that, notwithstanding the great extension of the creamery system and the decline in the amount of butter annually exported, such production has increased even more rapidly than population. To go back to the census of 1850, it is found that the total production of butter on farms in 1849 wae 313,345 306 pounds, or 13 51 pounds per capita of population. In 1860 the amount reported was 459 681 372 pounds or 14.92 pounds per capita. In 1870 the amount reported was 514,092 683 pounds, which gave an average of only 13 33 younds for each inhabitant. Up to this time there had been no creamery butter reported, but in 1880 the production of farm butter averaged 15 50 pounds for each inhabitant, and that of creamery butter 0.58 pounds for each inhabitant, the total average being thus 1608 pounds. At the eleventh census, however, the production of butter farms on alone averaged 16 38 pounds per capita of the population, and such had been the increase in the production of butter in creamer. ies that the total production of butter averaged no less than 19 25 pounds per unit of the population." A further reading of Maj. Alvord's report shows that in 39 States and Territories, considering the two Dakotes as one State for the convenience of comparison with the statistics of 1879. there has been an increase in the production of farm dairy butter. As a rule the increase has been greatest in the States where the greatest extension of the creamery system has taken place, including such States as Wisconsin, Minnesota, Iowa and Nebraska. With the above facts before us it will not do to ignore the farm dairy butter interest. It will be seen that the eleventh census shows that more than five and one-half times more butter is made in farm dairies in this country than in factories or public creameries. Is not the farm dairy interest worth looking after, and will it not pay to do all that can be done to improve the quality of farm dairy butter produced? The writer's answer is, yes. He believes that will be the answer of many. Again is it not high time that dairy farmers should organize?

neighbors as to the cropping of hay impoverishing the soil; the Southern farmer believes in letting it rot where it grew. I believe in cutting it, and by

so doing I improve the quality of the soil; because the stubble growth it afterwards makes has fifty roots for the one it previously had, and by plowing under this stubble, roots and all in the fall of the year after all growth ceases, I improve my land a great deal more than the man who allows his hay to rot where it lies, and plows his land in the spring just in time to get his spring crop, and I have hay for my stock all the year round and they are fat and sleek, whereas his roaming the woods and in the winter are nothing

C. K. M. QUARRIE

Mewborne, Kins on, N. C.

Vestivale

STATE ALLIANCE JUDICIARY COMMITTEE. John Brady, Gatesville, N. C.; Dr. J.F. Harrell, Whiteville, N. C.; T. J Candler, Acton, N. C.

worth Carolina Reform Press Association. Officers-J. L. Ramsey, President; Sarion Butler, Vice-President; W. S. Barnes, Secretary, PAPERS. Fregressive Farmer, State Organ, Raleigh, N. taleigh, N Cancasian, Hickory, Mercury, Whitskers, N Sattler. Gur Home. Beaver Dam, 1 Lumiberton, The Populist, Charlotte, N Concord, N People's Paper,

The Flow-doy. Carolina Watchman. Sa.isbury, N Each of the above-named papers are recuested to keep the list standing on the first page and add others, provided they are duly elected. Any paper failing to advocate the Ocala platform will is dropped from the list promptly. Our people can now see what papers are ublished in their interest.

Wadesboro.

AGRICULTURE.

Raising all, or as near as possible, all your home supplies on the farm, is the forerunner of success.

lot of good stuff for winter forage.

In planning out the home garden. the great point is to keep the crops in rotation so that something can be had the ground freezes.

Select from the earliest hatched broods the most forward and promising pullets for fall and winter layers, and send the rest to the market as soon as ever they are ready. They will pay better now than to keep and wait for higher prices later in the season.

For the Southern farmer or planter the mule is indispensable. Unfortu nately, in the past, the planter has raised too few mules, depending almost entirely upon the markets to supply him. He is beginning to understand, however, that he can raise good mules a great deal cheaper than he can buy them, and every year sees more "home grown mules on Southern farms.

When the hens are slow to lay, one of the best invigorators is a mess of lean meat twice or three times a week. About an ounce for each hen is sufficient at a meal. Milk, fresh mixed given me two cuttings and some times with ground oats and bran, is another three, and I might go on indefinitely tures for a few weeks and thus save ing up late planted cotton. Peas are excellent mixture for inducing the hens repeating the same thing, but I have loss Common corn, sweet corn, millet, being planted in fields now. Grapes

longing to these very farmers that owned those fields and either through shiftlessness or laziness, (or perhaps both) they would not use what nature so liberally bestowed on them.

winter months cattle are roaming the

woods in a state of semi starvation be

On visiting the various country stores one is impressed with the fact that all hav for sale is baled timothy shipped in from the North or West; once in a while one comes across a bale of crab grass hay, but it is very seldom indeed. Now this crab grass hay is one of the most valuable products of the Southern farm, and being an annual the yield of fertilizing, it grows spontaneous and the better the previous cultivation the heavier the growth of it. We never have it on new land, but after the sec ond year's cultivation it is sure to come to the front; it makes far superior hay to timothy, and stock that are used to it will not eat any other kind of hay as long as they can get it, and every farmer in the South can have all of it he wants if he retains his crop in a judicious manner, and the best of it is By planting or sowing corn in drills | that it will grow after another crop has three feet apart now you can raise a been taken off. I always get a good crop of it every year after my corn crop is harvested. This is done by level-

ing the land by means of a V shaped harrow at the last working of the corn for the table almost every day until and cutting the corn stalks close to the ground with a very sharp hoe. If the corn has been well fertilized, particular ly with potash, the hay don't require any more fertilizin, but if not, a hun dred pounds of cotton seed meal and four hundred pounds of kainit at the last working of the corn will prove a

> good investment, if the season is favor able. I can some times cut two crops of hay from the corn field before cold weather, thus making three crops in one year off the same land. Out stubble plowed under and kainit broadcasted at the time of plowing has al ways given me a very satisfactory crop and often two crops. I always the 'dry spell" of the year, for it is get a good crop of hay from my early temato patch, some times two cuttings and often three, and after the straw berries are through bearing, we have got to let the grass grow on the bed to year and there will be a shortage. protect the plants from our hot summer Southern sun and it has always

late seeding than will any other. The rule used to be to sow on or about the fourth of July, as this late seeding de

but skin and bone.

hens and chickens.

De Funiak Springs, Fla.

by frequently washing them with kero

sene or lime wash and put a drop of

once a week. A little sulphur fed in

soft food once or twice a week is an ex-

cellent means of keeping down lice on

THE TIME TO SOW BUCKWHEAT.

In many places buckwheat is largely

Keep the chicken coops free from lice

layed blossoming and filling until cooler weather, and thus lessened the danger of the blossom blasting without filling. There is always a crop of early buckwheat from seed that was scattered in the harvest the previous year. But we never knew this early sown then exposed to the sun. But the crop, even in the orchard, hardly paid for gathering, as the plants were checked by the draw of moisture from the ground by the trees, and were both small and thin on the surface But start and rapid growth. Much un



I have some times thought that al most every farmer succeeds well along the few who are always alert and wide longer than e pected, grass a little late in coming so there was doubtless a shrinkage in weight of stock and posthis is in the past nd the thing to do now is to provide against a quite com mon loss that occurs in mia-summer, pretty sure to come.

its effect on meadows and pastures this

feed to cut off, to supplement the pas-

GRASS FOR PIGS.

Exercise, good air, and sunshine play a much greater part in pig rais ing than most people commonly sup pose. It is for this reason that the western practice of relying quite largely on grazing for the nourishment of swine is so successful, says Farm News. This has nover been so clearly dem onstrated as by a series of pig feeding tests extending over four years, made by Mr. A. A. Mills, of Utah. We give the results below:

1. Pigs allowed to run at large over eighteen acres of good pasture and fed a full ration of grain made the most rapid growth and required the least grain for one pound of gain.

2 Pigs confined in movable pens in the pasture grew more slowly than those running loose, and required an iscrease of twenty per cent. of grain to make one pound of growth.

3 Pigs at pasture, fed under three different conditions, gained 92 5 per cent, more and ate but two per cent more than the pigs getting grass and otherwise similarly fed, but confined in pens. The grain required to produce one pound of gain was increased forty per cent, with those in peus over those in pasture.

4 Pigs fcd but part rations of grain at pasture made satisfactory gains. Those at pasture getting the threeeither in the yards or in the pens.

5 Pigs pastured without grain made about the same growth for three seasons in succession, this averaging .36 of a pound per day.

6. As nearly as can be judged, exercise alone increased the gain 22 per cent,

F. W. MOSALEY. Clinton, Iowa.

IMPURITIES IN MILK.

The processes of manufacturing butter from milk have passed through a wonderful development in recent years. There is no doubt that the separator removes some impurities from cream that other processes of skimming milk would not. The cream from the separator is consequently that much cleaner and nearer free from dirt, which may be the origin of fermentations that will develop a bad quality in butter. This quality of the separator is no excuse for carelessness in handling the milk which is to be skimmed by it. Dirt does not belong in milk, says a writer, and though the separator may be able to remove a part. it cannot be depended on by the milk producer to annihilate all the defects with which milk may be inoculated by impurities,

-----THINGS TO THINK ABOUT.

	to lay, and clover hay, chopped fine,	always noticed that the grons that got	1088 Common corn, sweet corn, millet,	being planted in fields now. Grapes	alone increased the gain 22 per cent	One of my mistakes in dairying is
	scalded and sprinkled with bran, affords	the most notash always gave me the	turnips, pumpkins, and others hill up	are generally reported as doing nicely.	and the amount eaten but 1 5 per cent,"	that I have been keeping some poor
	an agreeable change that seldom fails	hest man of eron of eroh grass hav In	the season, but we think nothing so	Harvesting of wheat was the chief	but decreased the amount required for	cows. I have been figuring on the dif-
	to give good results. Aim to give the	the orchard I classes out two on theme	good as some of the sorghums. A busbel	work of the week; cropshort, butgrain	one pound gain 22 per cent.	and a poor one and I find that a good cow
	hone a variaty and they will seldom	times the second days cut two or three	of the common sorghum seed sown	good. Rain stopped work, but crops	7. Grass when cut and fed green to	one is cheaper at \$100 than a noor one
	fields a valievy, and they this second	times the grass that grows so luxuriant	broadcast or drilled on acre of ground	not suffering for want of cultivation.	pies whether fed in pens or yards, or	as a gift, provided I must keep each
	rau to lay.	and the years that the crop of fruit is	would be as good an investment in this		with full or part grain ration, or with	for four years. This is the way I figure
	Hawks are troublesome to poulterers	light are the years that the crop of hay	way as we could suggest. The Keffir	HOW TO MEASURE LAND.	out grain, proved to be of very little	it: The good one will make 300 pounds
	in many neighborhoods, pouncing	is best and potash gets in its best work	corns are splendid for this purpose,		value.	of butter in a year, which, at 25 cente,
	down upon young chickens and carry-	in the orchard. The general rule with	either planted with four to six times as	Make a light and straight pole six	8 Pigs confined in pens and led on	would amount to \$75. During this
	ing them off before the watchful hen	the orchard is to keep it well cultivated	many stalks as you would of corn, but	teen and a half feet in length, and mark	grass alone, mostly lucerne, for 31 days,	of feed leaving a profit of \$135 or \$140
	can call them to a place of safety. The	up to within a few weeks of the fruit	not so many more in a hill, but have	feet and a half feet on one side, and on	9 The average of the pigs fed on	in four years. On the other hand, the
	habit of the hawk is always to take a	ripening and at the last cultivation	the rows closer together and the stalks	the opposite side divide the sixteen and	grass gained a little more than those	poor cow will make 160 pounds of but-
	rest before he swoons down. If a stout	scatter cotton seed meal and work it in	broadcast one half to three fourths of	a half feet into spaces representing the	without the grass, but not enough to	ter, which, at the same price, would
	nost 10 to 12 feet high and its top flat	the soil for hay but lately I have been	a bushel per acre.	length of links in the chain of a sur-	pay for the extra feed in the grass.	amount to \$40. She will consume, say,
	tened is set near the noultry yard the	using kainit as well and I find a great	W. E Hutchinson, of Kansas, gives	vevor says a good authority. A sur-	10. With the pigs confined in the	\$35 worth of feed, leaving a profit of
	hawk will use this or his reating place	improvement both in quantity and	my opinion exactly when he says:	vevor's chain is sixty six feet in length.	hog-nouse pens, the grass proved bene is	hetween \$20 and \$140 is \$120 in favor
	Forter will use this as his result place.	Improvement, both in quantity and	"Those who have tried it one year like	containing 100 links Hance a pole	proved detrimental the latter requir	of the good cow. I will certainly have
	rasten a trap to the top of this post	quanty. I use good four hundred	it; those who have tried it two years	containing 100 miks. Hence, a pore	ing more grain to make a pound of	to give the P. F. credit for making me
	with a stout cord, and set it on the top	pounds of kainit per acre as a general	praise 15, and those who have tried 15	sixteen and a nait feet long would be	pork with the grass than without it.	think of this, and hereafter when I get
	where the feet of the hawk will epring	rule, some times more and some times	if you have never found out ab ut is "	equal to twenty nve links. A link is	11. Pasturing either with full or with	a poor cow I shall sell her for as much
ł	it as soon as he alights. This is an	less, according to previous fertilizing	Five pounds will plant an acre.	7.92 inches in length. With dividers	part grain rations appeared to be by	as I can get, but sell her I will, and
	easy way to kill the worst enemy the	and general state of the soil. Now the	J. M RICE.	one can indicate twenty live equal	far the cheapest and best way of mak-	Quickly, 100George H. Brown, in
	poultry raiser in many localities has.	question is often debated among my	Winview, Okla.	spaces or links on one side of the pole	ing pork.	rracultar parmer.