## AGRICULTURAL JOURNAL. STATE

# Agricultural and Industrial.

## Four Acres Red Clover.

## STATE OF NORTH COAROLINA, Orange County.

A. W. Graham being duly sworn, says he acurately measured the land upon which Jas. Norwood raised a crop of Red Clover the past season, and the quantity of land is (4) four acres and no more.

A. W. GRAHAM. (Signed.) Sworn to before me this 13th day of November, 1874. GEO. LAWS, Clerk Superior Court.

Jas. Norwood, of Orange County, being duly sworn, says he raised the past season, a crop, of Red Clover, upon the land measured by A. W. Graham, and the quantity of hay raised thereon was 24,300 pounds, and no more; and the statements in regard to manner of cultivation, &c., are correct to the best of his knowledge.

Soil, red clay; no manure used on this crop, land very rich from previous manurings; one gallon seed sown on wheat 1st October, 1872, and the same quantity sown again in February 1873, and rooled in. Cost of harvesting, an average of 18 cts per 100 pounds, (mower and sulkey rake used.)

(Signed.) JAS. NORWOOD. Sworn to before me this 13th day of No-GEO. LAWS, vember, 1874. Clerk Superior Court.

Five Acres Red Top Grass.

STATE OF NORTH CAROLINA,

way is equal to 3.36 acres planted in single it is done by a negro blacksmith. Our houses- in making money, and very sharp and "smart" rows 31 by 31 feet.

planted in single rows, 4 by 4 feet.

rows 5 by 3 feet.

## MANURING.

This subject has been the study of man from the earliest days. The husbandman asked the master to spare the unfruitful fig-tree, until it "had been digged about and dunged," to make it bear fruit. No subject enriches the mind so much as enriching the soil. And although it is most wontonly wasted and abused. At any gin house, the eye meets large piles of cotton seed, laying out in the weather unproevaporating all the ammonia on the air. It is astounding that men have a perfect knowledge of the great value of cotton seed as a fertilizer will persist in throwing it out to rot as it comes from the gin, and make no effort to protect it. Experience has demonstrated the fact that one bushel of uprotted seed is of more value than bushels rotted by the winter rains. When plowed in well in the green state, they rot in the ground, filling the earth with ammonia and prepare the soil with food for vegetation.

The same careless habits exists with other manures; they are exposed to sun and rain and lay spread out in lots regardless of their value; and even the costly guanos, for which so much money is expended, are wasted and imperfectly applied. Planters generally delay preparing their land and putting in the man ure until driven by necessity. Then everything is rushed and hurried; the land is half broken; and when the guano is being distributed, because of its bad odor, it is turned over to the negro, to be put in the ground as best he can, and to do it fast, and get rid of it. The bags are placed at great distances over the field to have it convenient, and it is carelessly put out; some in too great quantities others too small. Many furrows with none, and no regularity at all; and if it should prove of little value, the planter curses the guano, and swears he has been swindled by the manufacthrer and agent; whereas, it he had paid the proper attention to seeing it evenly distributed all over the land, and properly covered in the furrows, it would have proved good and made a handsome yield. As long as manures are carelessly attended to, they will prove valueless. Food gulped down in large pieces without chewing, will produce bad blood and sickness. Land treated here and there to overgrown doses of guano, causes it to sicken and lose its moisture and fertility. Manures should be either broadcasted and thoroughly plowed under, or evenly distributed in a furrow and well covered up. To do otherwise, is only throwing away the manure. In planting coin, my rule is to break the land well in November or December. In January, lap off the corn rows and distribute, evenly in the furrows, three fitths of the cotton bags, whith some cats and chafl, or have a bit seed (or other manure) that 1 intend to use, and bed on it. In February, I run one foot on each side of the furrow containing the manure, and p'ant the corn at such distance as thought best. This will give double rows. At | eat nor drink till four o'clock ; then they are the second plowing, I open a furrow one foot not given more than a quart or two of water England; there are no meals to cook for farm on each side of the corn with a wide, dull until they have had some hay or straw, which hands, excepting perhaps, for one or two enscooter plow, and put in the remaining two- they eat while the men and boys have their gaged by the year, or from Oct. 11 till that fifths of well rotted manure, and cover it with dinner. This is generally eaten in the stable, day next year, and there are always young a sweep, thus completing the middles. My unless the farm homestead is in the village, in men who, oftener than not, marry one of the full plan of culture, will be seen in the pub- which case they go home to their cottages to servant maids and have a cottage after the lished proceedings of the last annual Fair at eat, after which they come back and feed and wedding, and the man continue on at weekly Macon, Georgia. If it is desired to make one clean the horses. The tood after the horses wages without board. acre produce as much as ten acres, as much are watered is chaft and oats, and often a small manure must be put on one acre as upon ten proportion of split beans, and this the teamster acres, and as many stalks of corn should be put gives in small quantities, mixed, commencing upon one acre as upon ten acres. Don't be with very little grain to the chaff, and increasatraid of firing the corn by concentrating so ing the oats and beans as the appetites become much manure and so much corn on one acre. satisfied. It will require that much corn to prevent it from firing. There being so much heat or aging farm horses and feeding them to repreammonia in the ground it will require this ex. sent it as better, but merely to show that the tra amount of vegetation to carry off the heat. hours are so much less in the day, and that No. 2. Planted 31 feet by 31 feet, gives 60 It will not fire. On the contrary, it only the there is cause why young men of spirit and season's campaign. At the fall of the leaf the usual quantity of corn, was planted in this who are fond of reading or of society and rat- plant is mostly mature, and the roots may highly fertilized one acre, it would burn up ioual recreation of any kind should become safely be transplanted to the garden. In a simply for the want of enough vegetation to weary of one slavish round of labor from dawn carry off this generated heat from the manure. till night, or say from sunrise till sunset, and No. 3. Planted 4 feet by 4 feet, gives 52 Of the many distances named for planting perhaps seeing daily other men passing to their gives 14,700 stalks to the acre. I prefer it becaus: of the better room to plow between the labor is over. corn, and prevents breaking by the horse or plow. The yield will be good enough. have experienced three successive years with United States, the leaving of farming for oth- decaying leaf is the guide to us, and it is rarethis concentrated plan, and have not failed in | er pursuits by the native born will not be felt | ly that we fail in removing the root, provided No. 5. Rows 4 feet 8 inches; corn one toot any year. It has stood the test of excessive so badly, but a time may come when it will be a little ball of earth is left surrounding it. A

are built mainly by negro carpenters. If a remarks are made to apply to the unfortunate No. 7. Rows 4 feet 6 inches. Corn 18 common fence around our lot has to be made, young gentlemen for hanging around while inches apart in drill, 2 feet between corn rows, we go to a jack-leg negro mechanic to do it. there is the healthy and noble occupation of and 2 feet 6 inches in middles, gives 45 rows The negroes are beginning to occupy the pla farming open to them. Now; it would be the with 280 stalks to the row, making 12,600 ces of runners and tiremen of engines ; and un- most pleasing spectacle imaginable to have the stalks, and requiring 97 bushels of cotton seed. less we teach our sons the mechanic trades, advisers- the men who are so hard on the One acre in this way is equal to 4.66 acres before twenty years have passed all the trades youthful generations-turn out themselves and of their country will pass into the hands of lead the young fellows. Let these fine middle-No. 8. Rows of 6 feet. Corn dropped one the negro and Northern men; and we shall be aged gentlemen take a number of the clerks foot apart in the drill, 2 feet between the corn dependent upon them to do the entire labor of into the country, and rising with the sun, and rows, and 4 feet in the middles, gives 35 rows the country, both agricultural and mechani- on a pork and potato diet, continue day after with 420 stalks to the row, equal to 14,700 cal. When that takes place they will be- day in the sun encouraging them to "come stalks, requires 115 bushels cotton seed. One come the masters of our farms and the owners along" and stick to work till there is no more acre equals in yield 5 acres planted in single of a majority of the city and town property. sunshine for that time. Then, when at the No people can prosper without furnishing the homestead, do the chores, and lie down in a labor in every department of industry. Learn room with a nice sprinkling of musquitoes and your sons to be blacksmiths, carpenters, engin an importation of bugs, &c., brought by some eers, brick masons, and all other trades by of the foreign help in their boxes or trunks which an honest living can be made. We across the water. must have diversified labor before we can be entircly independent and prosperous. We must spin and weave our cotton, make our own machine shops, build our engines and our it lies at the very root of successful agriculture, houses and man our forges. This will event- state of facts. Parties and neighborly gathnally be the white man's country, exclusively. erings are at a season of the year when the The negro will die out. It we expect to make hired help is absent; but the farmer's sons it honorable, prosperous and happy, we must tected from the rain and sun, and hourly learn the white youth of the land to cultivate compensate for the drudgery of summer, only the farms and to labor at all the mechanic fever, &c., in the autumn, has taken so much -trades. If we neglect it our children will be: come hewers of wood and drawers of water and a race of paupers.

# Farm Work vs. Other Work.

There has been a good deal said, pro and con, respecting farmer's' sons leaving their fathers rnd agricultural pursuits altogether for the city youth, and those high sounding wriother employments, and when the long days ters who are so hard on what they term laziand heavy labor is taken into account, it is no ness have no connection with that class of wonder they should do so. It is but right to farmers; they belong to the high and mighty admit at once that on the best farms there are many contrivances for lessening the most laborious jobs-as horse hay-forks, tenders, sulky rakes, &c., are added to the mowers and reapers; but with all these helps, the many houss extra on the farms over any other employment are wearisome in the extreme, and doubtless the strain, combined with the one hour in the morning and the two hours at night over the usual time away from faaming, tells on the constitution and brings on chills and fever and other troubles in the autumn. Where it does not do this, consider how it is to have no time to sit and read or rest an honr or two before lying down for the night. It would be better to have the hours the same on the farm as in the saw mill, the factory, or the shop, and as in city or town work. in which case there would not be so much running from duties made as light and non-repulsive as in the country to the populous places. longer than here, but, unless, when hauling to the cities and for the city people to go into hay home, the men all leave work at 6 P. M., the country. and the teams only work when plowing or cultivating from 7 A. M. till 4 P. M. In Scot- to the farmers, and laborers would be more land and in the County of Norfolk, England, | settled and reliable if a system of cropping, there are stablemen who feed the horses, and grazing and wintering of live stock was adoptthose who work them go out at six, bringing ed, so that a uniform number of laborers could them home at noon, and afterward keeping on be employed all the year round. Men who till six. In almost all other parts of England could be employed constantly would feel more the hours are as above stated, the horses not like taking an interest in their employer's coming home and having nothing beyond a ten minutes' lunch at noon, which is eaten at | was kept to the particular department he is the land's end. The crust of bread and cheese most adapted for and which he feels the greatthe teamster and boys carry in their pockets, or in a wallet, and the horses have hair noseof hay, which would be brought into the field with a cord around it and hung on the hames. Of course ten minutes don't allow of much be- home are complete time servers or eye-servants; ing eaten, but many farmers' horses neither they "put in their time," and that is all they I do not mention this English way of mancalling after they have been in the field an pared soil of leat-mold from the woods, with hour, and returning, with nothing to do after an old stump or two, a few mossy stones carethey get home, fully two hours before the farm lessly heaped together in a corner, and beneath not fired under either, from the simple law of it is not wise to have such a leading interest ting a little peat and sand we can then introin ture that the foliage was proportionate to supported by a force of men who stand the duce such charming plants as grow in the very lowest in the scale of social intercourse, sphagnum swamps, and the multitudes of what and who have no time to improve their minds | may be termed Alpines, found in the erevices above the old timeworn belief in the moon's of rocks may now be safely transplanted to

It is all very well to write in nicely-chosen language about the handsome, athletic farmers, their parties, their holidays and general good time, but really proves a very different might be very merry and the extra enjoyment of the cheerful share of the spirits out of the system. There is a great variety in farmers' homes, in their treatment of men, and their disposition to create and produce a state of comfort and happiness. It is but justice to admit that there are farmers' homes having all the advantages and joyous surroundings depicted in novels; but they are so few and far between that they could not be found by men who have no laziness, only a constitutional unfitness for muscular exertion, and those who help to support these daily scribblers are leading agriculturists who pay some poor devil a little more than common wages to moil and toil and lead the hired help, all of which though, in most instances, ends in an auction sale of all the stock and implements, with the farm to be rented. Work in agricultural pursuits is not directed with the same brain power as other great interests employ; hence the long days and laborous straining till the back and limbs ache, and until those who have not been hardened to work in their youth have to succumb, whereas were machinery and implements manufactured with an eye to saving the attendance from being so irksome, and the labor and other business, there would be no cause for re-In England the days in summer are much commendations to country people not to flock Agriculture would be more remunerative prosperity, and if, as in England, each man est pleasure in attending to, the whole organization would proceed and have a charming effect on the profits and prosperity of the farm. A great proportion of the men who run around boarding at the farmers and having no settled care about. There is nothing of the sort in

ORANGE COUNTY, N. C.

A. W. Graham being sworn, says he accurately measured the land upon which James Norwood raised a crop of Red Top Grass, the past season, and the quantity of land is (5) five acres and no more.

(Signed.) A. W. GRAHAM, Sworn to before me this 13th day of No-GEO. LAWS. vember, 1874. Clerk Superior Court.

James Norwood, of Orange, county being duly sworn, says he raised a crop of Red Top Grass the past season upon the land measured by A. W. Graham, and that the quantity of hay raised there on was (27,000) twenty seven thousand pounds, and that the statement in regard to the manner of cultivation, &c., are correct to the best of his knowledge.

Soil, grey clay; seed sown on Rye, half bushel per acre, October 1871, (heavily manured for the rye), water turned on two days of each week from February to June.

Cost of harvesting, 10 cents per hundred pounds, mower and sulkey rake used.

JAS. NORWOOD. (Signed) Sworn to before me this 13th day of November, 1874. GEO. LAWS, Clerk Superior Court.

Statement.

Giving a table of corn distances for both single and double rows with the two systems compared; also plan of planting corn by the double row system, manuring, etc. By R. H. Hardaway, before the Georgia State Agricultural Society, August 13, 1874.

SINGLE ROWS AND AN OLD SYSTEM OF MANUR-ING, VIZ: TWO GILLS OF COTTON SEED TO THE HILL.

No. 1. Corn planted 3 feet by 3 feet gives 70 rows to the acre and 70 stalks in a row. which makes 4,900 stalks to the acre, and two gills of cotton seed to the hill, will require 38 bushels of cotton seed.

rows and 60 stalks to the row, equal to 3,600 stalks to the acre, and 28 bushels of cotton seed.

A WORKING MAN.

Wild Flowers

Lovers of flowers, and particularly that class which endeavors to imitate Nature in all her wild, irregular system of distributing her flora, may now be at work preparing for next partially shaded corner is where the wild flowers love to grow, and here in a nicely prethe shadow of a few choice shrubs, may be set As long as emigrants continue to flock to the out the choicest ornaments of our woods. The

rows and 52 stalks to the row, equal to corn, I prefer the six feet rows, (No. 8) that 2,700 stalks and 21 bushels cotton seed.

No. 4. Planted 5 feet by 3 teet, gives 42 rows and 70 stalks to the row, making 2,940 stalks, and 23 bushels of cotton seed.

### DOUBLE ROWS.

apart in the drill, 2 feet between the corn drought, and excessive wet weather, and has well to make agriculture more attractive, for low moist spot is a prize indeed; for by inserrows, 2 feet 8 inches in middles. This gives 45 rows and 420 stalks to a row, equal to 18,-900 stalks, and requiring 147 bushels of cotthe ammonia in the ground. ton seed. One acre planted in this way equals 3.86 acres planted in single rows 3x3 feet.

No. 6. Rows 4 feet 4 inches; corn dropped One serious detriment to the prosperity of influences, witchcraft or spiritual visitations, our little artificial rockery with entire safety. 20 inches in the drill, 20 inches between the the South, lies in the neglect of mechanical and in all manner of unfounded diseases and We think our European florists rather overdo corn rows, and 2 feet 8 inches in the middles. trades. Our people must entertain a higher imaginary afflictions among live stock. A this matter by introducing these plants into This gives 48 rows with 252 stalks to the row, respect for mechanics. Every boy should learn good deal is said at times to young men in all manner of conspicuous places; but we, on making 12,096 stalks, and requiring 94 bush- a trade, and pursue it. Just look at the pres- New York and other cities by old men and the other hand, almost totally ignore them, els of cotton seed. One acre planted in this ent state of things. If a horse needs shoeing, by gentlemen who have succeeded in the world and therefore are far worse.

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#### MECHANICS.