THE GOLD LEAF.

HENDERSON, N. C.

THURSDAY, SEPT. 5, 1895.

FOR LADIES WHO RIDE.

[Atlanta Constitution].

The women down at Billville have got the bloomers crazy They say it makes 'em healthy, an' they're going for it strong, An' the men are bakin' biscuits an' cussin

all day long' Bicycles an' bloomers – Never saw the like: Never is no tellin' Where lightinin's goin' to strike!

The women down at Billville have got the bloomers right: They're spinnin' down the big road an' goin out of sight; done with foreign missionschurch fairs are going wrong, An' the men are mindin' babies an' cussin'

all day long Bicycles and bloomers-Gittin' wuss and wuss! Lord knows where we'll git to

Before they're done with us The women down at Billville-they're They're racing with the railroad trains an' rolling down the hill; They've got the reddest bloomers-their neveles are strong; An the men wear Mother Hubbards and

Bieveles and bloomers-All the men are "goners" ! Don't know what we're coming to-Lord have mercy on us

the whole day long!



AT RALEIGH, NORTH CAROLINA. Harvesting and Threshing Cowpeas by Machinery-Insect Pests of Shade Trees | Feeding Calves Questions and Replies.

August 1895.

The Experiment Station Bulletins. The standing offer is made to send the bulletins of the station to all in the state who really desire to receive them. They are specially prepared to be serviceable as far as possible to the practical farmer. Thousands of farmers have already taken advantage of this offer. Unless you really want to be benefited please, do not apply for them as we have none to throw away. If you desire to read them, write on postal card to Dr. H. B. Battle, Director Raleigh, N. C.

Harvesting and Threshing Cowpeas by Machinery. hand and at a cost too great for them - 5.25 inches, which is 0.19 inch below to become very widely planted for both spondents have called attention to this matter, among them being Judge Walter Clark of the North Carolina Supreme Court Bench, and Prof. W. F. Massey of the North Carolina Experiment Station Four parties responded, and all were invited to send a muchine to be tested by the North Carolina Experiment Station. Only one of these, Mr. J. H. Gardner of Dalton, Ga., accepted the proposition, and his machine was tested by Prof. F. E. Emery, Agriculturist of the North Carolina Experiment Station, first on the farm of Mr. T. B. Parker, Goldsboro, N. C., and again on the farm of the Agricultural College at Raleigh. The machine is a thresher and not a harvester, and only threshes the peas from the pols after they have been picked by hand from the vines. The machine is known as the "Success Pea Thresher." At the first trial of 15 minutes 31 1, the corresponding to 2.1 bushels per hour, were threshed and fairly well cleaned. This required one man to feed the machine, while two furned the wheel. It was impossible for these two men to have continued a day. At the second trul run for 44

that in the first. The machine therefore cannot be recommended. What is needed is a serviceable Pea Harvester, that will gather the peas from the vines in the field, and not merely a pea thresher. There have come to light two such machines in the investigation of the North Carolina Experiment Station upon the subject. These however need improvement and with some ingenuity and capital might be successfully placed on the market. Both of these are North Carolina inventions. One of them (the "Eureka") proposes to gather the crop from broadcast sowing, while the other picks from rows. This last the Savage Pea and Bean Harvester) was shown in a test (North Carolina Experiment Station Press Bulletin No. 38) to gather 76 per cent, of all the peas when driven once over a row: with a second time, 86.86 per cent. were gathered, which was about as efficient as hand work.

A machine to gather peas from broadeast sowings however, is the one most needed, and if proven successful, and can be placed on the market cheaply, is bound to prove of great value both to the inventor and to farmers generally. Insect Pests of Shade-trees.

During the last few years there has arisen an ever increasing strain of complaint against the insects which have begun to ravage the shade-trees in southern cities and towns. The alarming damage arises partly from the unforeign species of insects, but is chiefly owing to the mischievous English sparrow, which is fast ejecting our native | riod of five days eight pounds of sepa insectivorous birds, while itself prefer-

tree insects may be enumerated the | ing for each calf. 1-TENT CATERPILLAR-Clisiocampa

disstrict. These worms form dome shaped nests in the crotches or among the branches of various trees, but more especially the oak and hickory. They also attack fruit trees. In some seasons, they deyour the foliage over large areas in swampy regions, and then migrate in

such swarms as to stop passing trains. REMEDIES: Burn the nests out with a torch made by wrapping a rag saturated with kerosene around the end of a suitable pole. They may also be readily poisoned by spraying infested trees with Paris green, -1 lb. to 150 gal-

2-FALL WEB-WORM-Hyphantrin tex-The webs of this insect become most painfully conspicuous in the late summer and fall months. The worms usually web together several leaves and

the enclosed leaves they extend the web around others. REMEDIES: The same as for the Tent

erence upon the sycamore, poplar and white maple. It is also a pest in neglected orchards. 3. THE ELM-BEETLE-Galeruca Xun-This insect is of foreign origin, only recently introduced and still chiefly

found upon the European Elm. The worms are about 1/4 inch long yellowish with two black stripes on sides. The worms feed in awarms upon the leaves of the Elm, eating the green matter and leaving the ribs. They are most troublesome in July and August. REMEDIES: Spray with Paris green. Gather up and destroy the pupa concealed under trash, boards, etc., under

and near elm trees. 4.—The Tussock Caterpillar-Ory-This worm is easily known by the four tufts of white hairs on its back resembling the dauber of a shoe brush.

This worm feeds upon the leaves of most shade and fruit trees, usually devouring the whole substance beginning at edge of leaf. It does not spin a web, but has a habit of suddenly dropping from the tree by a cable which it spins as it falls. It is most common on the maple, elm and fruit trees.

REMEDY: Same as for No. 3. The above described insects are only a few of the most destructive species known to exist in this state. Lovers of be satisful trees are requested to watch for the first appearance of these pests and promptly notify the Experiment Station, sending at the same time specimens of the insects and the foliage they damage. Special remedies will be given such as each case requires. Bulletin No. 100, our common insects can be had gratis by applying to Director H. B. Battle, Raleigh, N. C.

Some species of trees are more exempt than others from insect attack. In setting out new trees these species should be given the preference. Among such and well adapted to our climate may be named, Red Mulberry, Tuliptree, Sweet and Sour Gums, Sugar Maple and Red Maple.-Gerald Me-Carthy, Etomologist, Experiment Sta-

Advanced Monthly Summary of Meteorological Reports for North Carolina,

July 1895. The North Carolina State Weather Service issues the following advanced summary of the weather for July 1895, as compared with the corresponding month of previous years:

Temperature. - The mean temperature for the month was 75.2 degrees, which is 2.6 degrees below the normal. The highest monthly mean was 80.2 at Lumberton; the lowest monthly mean, 64.0 at Linville. The highest temperature was 99 degrees at Littleton, Tarboro, Rockingham, Saxon and Salem on various dates; lowest temperature, 43 on the 3d and 6th at Linville. The warmest July during the past 22 years was in 1887, with mean of 80.3 degrees: the coldest, in 1891, mean 74.2.

Freelpitation .- Average for the month, the normal. The greatest amount was a renovating and money crops. Corre- 9.03 inches at Southport; least amount, 133 at Asheville. The wettest July occurred in 1889, average rainfall 7.73 inches; the driest in 1883, average, 3.12. Wind. Prevailing direction, southwest, which is the normal direction for Average hourly velocity, 7.0 miles. Highest velocity 45 miles an your from the southwest on the 24th at

> Miscellancous. - Thunderstorms occurred at one or more places in the state on every day except, 12th, 17th, 26th, both and Sist. But few reports of hail during the month

The month was on the whole very favorable to agriculture.

North Carolina Weather During 1894. The North Carolina Experiment Station has issued an attractively bound work entitled "North Carolina Weather during the year 1894." It embodies the results of meteorological and other obervations of the state weather service during that year. The volume embraces 256 pages and includes a carefully prepared index and table of contents. It describes the work of the state weather service and through its several agencies, how it benefits the people of the state. The agencies are, the minutes, the rate of L57 bushels per meteorological observing stations, the hour was secured. As compared with these results, three men were employed signal display stations, and crop reporting systems. The latter distribto whip out the peas by hand and to uted weekly the weather crop bulletin fan them clean also by hand. Occupied thus for 44 minutes, they secured for twenty-six issues, the signal stathe rate of 3.6 bushels per hour of tions display flags to note the coming of cold wave and frost warnings and cleaned peas. This is more than double changes in the weather, while the obthe result from the Success Thresher in the second trial and nearly double from serving stations furnished observations for securing a correct record of cour climate and weather. Another branch of the service which will prove of value is the flood warning system, by which people living on the low grounds of certain rivers are warned of the approach of floods. The number of places supplied by weather forecasts is nearly 500. The crop correspondents reporting for the weekly weather crop bulletin numbered 350 from all of the 166 counties. The meteorological observing stations numbered 73 from all

The volume will be sent free to those who apply, provided they really desire to preserve such records and to learn of the operations of this division of the North Carolina Experiment Station.

leeding Calves. Two calves from grade Jersey heifers were left on their dams until six and three days old respectively. The first day from dams, the calves were fed freshly drawn mother's milk with nothing in it. The second day % mother's milk and % separated milk was fed. This proportion of mixing was continued five days. Then one pound of fresh milk to four pounds of separated milk was fed five days. The third period of five days the calves drak six pounds each of separated milk twice daily with one ounce of ground oats stirred into each mess.

During the fourth period of five days seven pounds of separated milk with checked introduction and spread of one ounce each of ground oats and wheat were consumed at each of two feeds by each calf. For the fifth perated milk with one ounce each of ground oats and wheat as before, con-Among the most destructive shade- stituted the feed per morning or even-

about a spoonful of lime water has Politeness doesn't cost anything .- Ex. been added to each feed. There was no scouring and both calves have grown well. This is shown in the gains of over one pound for one calf, and 14 pounds for the other calf per day.— F. E. Emery, Agriculturist N. C. Experiment Station.

Irving W. Larimore, physical director of Y. M. C. A., Des Moines, Iowa, says he can conscientiously recommend Chamberlain's Pain Balm to athletes, gymnasts, bicyclists, foot ball players and the profession in general for bruises, sprains and dislocations; also for soreness and stiffness of the muscles. When applied before the parts become swollen it will effect a cure in one half the time usually required. For sale by M. Dorsey, Druggist.

NOT WHAT WE SAY, but what Hood's Sarsaparilla Does, eat the soft tissue, leaving the large | that tells the story of its merit and suc-

Caterpillar. This worm feeds by pref-

The Station will be glad to extend its usefulness by answering as far as pos-sible questions on agricultural topics sent by any one in North Carolina who may desire to ask for information. Address all questions to the North Carolina Agricultural Experiment Station, Raleigh, N. C. Replies will be written as early as possible by the member of the Station staff most competent to do so, and when, of general interest, they will also appear in these columns. The Station desires in this way to enlarge its sphere of usefulness and render immediate assistance to practical farmers.

Questions and Replies.

Acid Phosphate of Different Grades. If you will kindly answerthe following ques-tions you will greatly oblige a number of farm-Take two samples of acid phosphate:—One analyzes 12 per cent, the other 13 per cent.—Commercially one is worth \$1.00 more than the other. Say that the dealer makes \$1.00 difference in price; which is the cheaper acid to the

farmer?
Some claim that there is an axcess of acid in most mixtures one that 13 per cent acid when bought to compound with other ingredients is no better than 10 per cent acid. Is dients is no better than 10 per cent acid. Is this not erroneous?

Take a sample of fertilizer analyzing a large percentage of moisture. Does this indicate only the mechanical conditions? Suppose af-ter a time the fertilizers—ry out is there any loss in weight?—T. T. C., Laurinburg, N. C. (Answered by H. B. Battle, Director, North

Carolina Experiment Station.)

On the supposition that the 12 per cent acid phosphate is sold for \$12.00 and the 13 per cent is sold for \$13.00, there is no difference in the value of the purchase, considering the amounts paid. The matter of greater weight of bulky materials in the 12 per cent article as compared with the 13 per cent article makes the latter somewhat better material to purchase, but if the above prices are paid for materials delivered at the depot and only wagon hauling is to be considered, this difference is but slight. Of course the 13 per cent article is better than any article of lower grade. The terms in percentage are confusing to most people, but if the meaning is kept well before one, it is not apt to be misunderstood. Thirteen per cent means 13 pounds of available phosphoric acid in every 100 pounds of the goods; 10 per cent article contains 10 pounds to every 100, and consequently is 3 pounds less than the

A sample of fertilizer containing a large percentage of moisture in drying will not lose any of the other materi als. The weight of the whole in bulk is less by the amount of drying but the original ingredients present in the 200 pound as first weighed will still be there, although there may not be but 185 pounds of the goods. But the analysis of the Fertilizer Control is generally made from samples taken after drying has taken place, and the decreased weight shows really a loss to the purchaser.

13 per cent article.

Grasses for Hay and Comparative Values of Hay. I have tried a number of kinds of grasses and red and white clover—but they all die out in a short time except Herds grass—that seems specially adapted to this soil and spreads even where not sown. The land is swamp, the soil 12 to 30 inches deep and has a subsoil of elay There is no marl within at least ten feet of the Do you know of any other grass tha will grow with the Red Top, and if so what?

I have tried liming for the clover, but it did
no good. Is there anything else? What is the
comparative value of the several grasses and comparative value of the several grasses and clovers using timothy (hay) at \$1.00 per 100 pounds as a basis? Also give value of corn fodder and cultivated soiling corn drilled thickly and allowed to ripen. When will be the best time to sow this grass seed after my corn comes off, which will be in December? W. R. M., Yeatsville, N. C.

(Answered by F. E. Emery, Agriculturist North Carolina Experiment Station.) If the land is not too wet Timothy should do well with the Red Bromus incrmis may do well for Orchard grass is also one of our most vigorous species and may do well if the land is not too wet.

Would recommend either Orchard grass or Bromus incrmis (Ownless Beame Grass) or this mixture 1 bushel Red Top Agrostis vulgair, 1 bushel Foul Meadow Grass, Poa scrotina 5 or 6 pounds Timothy seed and 4 to 6 pounds Perennial Red Clower.

Prepare the ground as soon as possi ble after the corn can be moved off. Sow the seed and top dress with stable manure and 200 or 300 pounds per acre of a good potassic manure or 500 to 1,000 pounds of wood ashes. This should secure a stand of grass if land does not overflow or is not too wet for the grasses named. Sow without oats. Grass does best without a nurse crop. From "Stewarts' Feeding Animals" a portion of a table is here adapted to show the relative values as requested. It shows that feeders of stock can do better than use all Timothy hay, and especially that some little valued forage plants are worth much more com-

paratively than I	mothy.	1000	
	Stewarts value per 100 lbs.	Same Ratio Timothy \$1.00 per 100 lbs.	
Timothy hay	8.62		
Red Top Hay		\$1.00	
Timothy & Red Top		.97	nearly
Orchard grass hay		1.02	***
Johnson grass hay	.71	1.14	
Crab grass hay	.70	1.13	nearly
Oat hay (cut in milk)	.68	1.10	
Mixed hay		.93	
Maize stover		.69	
Maize fodder	-53	.85	
Oat straw	.47	.76	nearly
Wheat straw	.41	.66	
Cow-peavines		1.29	
Clover hay	.77	1.24	
clover	73	1 18	pearly

The actual value consists more in what can be produced per acre than on the above comparisons of 100 pounds of each article. Maize fodder, and stover cowpeavines, and Johnsons grass yield from two to four times as much as timothy hay averages.

The Lesser Locust Injuring Crops. I enclose some of the different sized grass-hoppers I am troubled with. I think they have changed somewhat in color, getting darker as they get larger. They have become so numerous that they are devouring truck of all kinds, but seem especially fond of melon vines. They also attack corn.—MRs. S. M. B., Wildwood,

[Answered by Gerald McCarthy, Etomoio st. N. C. Experiment Station.] The insects are the lesser Locust Caloptenus atlantis. This is an indigenous species which ranges all through the Atlantic States from Maine to Mexico. It is not generally very trouble some. Where it attacks truck the Arsenite powder made according to for-mula No. 7, Bulletin 84 of this Station, will destroy it. Where it is abundant enough to damage field crops the only practicable remedy is the "hopper dozer" which must, however, be used by the combined farmers of a neighborhood. It will not pay a single farmer to attempt it. These insects will not last long should the weather be nor-

If you want to get along well and not be thought "stuck up," always bow politely to everybody you know From the beginning of this feeding when you meet them on the street.

Second-hand Machinery FOR SALE.

The undersigned has for sale the fol-lowing described second-hand machinery ONE 8-HORSE POWER ENGINE: ONE 65-SAW COTTON GIN: TWO POWER COTTON PRESSES, ONE SEPARATOR: BELTING AND FIXTURERS for operating same. One of the gins is in perfect condition, the other needs some repairs. Both of the engines are in good order as are the cotton presses and saw mill. A bargain may be had in any or all of the above mentioned machinery. For further information call on or address

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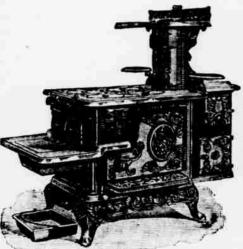


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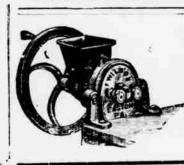
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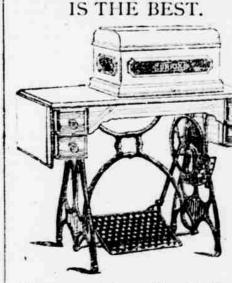
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