daughters can accompany their husbands, fathers and brothers, and when we consider the mighty influence which women exercises over, we should who is not lost to all feelings of hu-manity but will restrain himself in their presence. Let a man be ever so wicked, yet in the presence of ladies he will bridle his tongue. Then, if woman possesses in herself so wonderful a power over man; if she possesses such an influence to keep men in the path of rectitude, what man is there who is unwilling for her to be-long to the Grange, which was wisely organized for her benefit as well as his. I have one with, one strong desire, and that is, to see the wife and daughters of every farmer in our Empire State coming into the Grange; then would there be a most glorious prospect in view for the agriculturist; then the young would flock to the Grange halls and join in the noble effort to elevate the standard of the farmer of the country; there would be no talk of the lukewarmness among our members, and such a thing as a dormant Grange would never be heard of, and the agricultural horizon would brighten and abine as if ten thousand electric lights were burning. My sisters, as Samuel Isham has said, the destiny of this country and of the whole nation, as well as the Order of Patrons of Husbandry, rests with you; will you sit idly by and not help extend its principles? I can not, I will not believe it. When you rise up in not believe it. When you rise up in the morning, let your prayers second on high, in behalf of a country which on high, in behalf of a country which is fast being carried by political hate and trickery into the vortex of destruction; let your prayers ascend as holy incense in behalf of the farmer's cause; and then we shall be blessed; with bountiful harvests, and whom called to lay down our implements on carth, we shall enter into that Grange above and receive the welcome plaudit, "Well done, good and faithful servauts."

THE GRANGE.

The Grange is a society of farmers, having for its object the advancement of farmers' interests, socially, intellectually and financially, and by its influence to clevate and dignify his calling; to afford our farmers an appropriate means for social entertainment of the control of the contr ment and intellectual improvement to afford an opportunity for cultivating the mind while cultivating the soil to place within the farmer's reach the benefits of mutual understanding and united effort; to overcame, through our frequent meetings, the natural isolation common to farmers' lives; to strengthen our attachments to our purmits— particularly among the young—by making our occupation more agreeable and our home aurroundings more attractive, by showing them there is something to live for besides drudgery and toil; that there is the properties of the control of the is time and opportunity for social en-joyment and intellectual improvement; that there is an opportunity to rise to position and honor in the country while holding the bandles of a plough. It is designed to bind the farmers together in a fraternal union; to encourage education amongst them, and thus advance to a higher state of perfection the science of agriculture; to clevate and dignify labor, thus pro moting the happiness and exalting the position of the laborer, and by a united effort and business-like management of our affairs, to reap more fully the just rewards of industry.

The Grange is a secret society, having pass-words, signs, &c. "Its meetings are governed by a Ritual, the which I visited was so badly atting

teachings of which are appropriate, pleasing and instructive. None but pleasing and instructive. members are admitted to our meetings, or to a knowledge of our busiuess transactions; this, not because we are ashamed of what we are doing, but in order to better carry out the objects we have in view, to secure unity among our members, and a feeling of confidence, harmony and security." It is not a political or party organiza-tion; it being reserved as the right of every Patron to alliliate and support that which will best carry out his principles. We prohibit the discussion of political questions in the C ange room; yet we assert that it is the duty of every citizen to take a proper interest in the politic, of bis country, 'It is his duty to do all he can for his own party, to put down bribery, cor-ruption and trickery, and see that none but competent, faithful and houest men, who will unflinchingly stand by our interests, are nominated for all positions of trust; and to have carried out the principle which should always characterize every Grange member— that the office should sele the man and not the man the office."

The Grange exerts no party, politi-cal, or sectariar influence, every mem-ber being allowed freedom of politi-cal opinion, as well as religious views.

${\it Entomological}.$

INSECTS INJURIOUS TO THE OAK.

The seventeen-year locust, one of the insects which is more particularly injurious to the oak tree, is in many respects a peculiarity. The description will be interesting. It is designated by naturalists as the Cicular Septemberin, and is the order HEMP-TERA, family Cicadani 1.

It stings the terminal twigs of the oak and other forest trees and of various fruit tree, and deposits its long slender eggs in a broken line along the

Without attempting to recapitulate the history of this famous in eet, we would only lay that the eggs are deposited from the end of May through posited from the end of May through June (Fig. 9, $d_{f,i}$) in pairs in the terminal twigs of the eak, &c. The larva (Fig. 9, f_i) batch out in about six weeks after they are deposited, and drop to the ground, in which they live, sucking the roots of trees, &c., for nearly seventeen years, the pupa state (Fig. 9, a_i , b_i) lasting but a few days

days.
The following remarks on the habitof this insect are taken from the Third Report on the injurious insects

of Massachusetts: As regards the kinds of trees stung by the Cicada I may quote from a communication from William Kite in the American Naturalist, vol. ii, p. 442 as confirming and adding somewhat to Dr. Harris's statements: "Seeing in the July number of the Naturalist a request for twigs of oaks which had been stung by the so-called seventeen-year locust, I take the liberty of sending you twics from eleven different varioties of trees in which the females have deposited their eggs. I do this to show that the insect arems indifferent to the kind of wood made use of as a depository of her eggs. These were gathered July 1, in about an hourstime, on the south hills of the 'Great Chester Valley,' Chester Co., 1's. No doubt the number of trees and bushes might be much increased. The female in depositing her eggs, seems to prefer well-matured wood, rejecting the growing branch of this year, and using the last year's wood and frequently that of the year before, as some of the show that the insect accus indifferent

that the apple trees will be seriously injured, and the peach trees will hardly survive their treatment. Instinct did not seem to caution the animal against using improper depositories, as I found many cherry trees had been used by them, the gum exiding from the wounds, in that case sealing the eggs in beyond escape.

"The males have begun to die, and

are found in number, under the trees the females are yet busy with their pe-culiar office. The length of wood perforated on each branch varied from one to two and a half feet averaging probably eighteen inches; these seemed to be the work of one insect on each twig, showing a wonderful fe-

"The recurrence of three "! scustyears' is well remembered in this locality-1834, 1851 and 1868. There ha been no variation from the usual time, establishing the regularity of their periodical appearance.

As regards the time and mode of hatching, Mr. S. S. Ruhvon, of Laucaster, Pa., contributes to the same journal some new and valuable facts, which we quote: "With reference to the eggs and young of the seventeen-

ful eggs were at least a third larger than they were when first deposited, I infer that they require the moisture contained in living wood to preserve their vitality. When the proper time arrives and the proper conditions are preserved, they are easily bred, and indeed I have seen them evolve on the palm 2f my hand. The eyes of the young cicades are seen through the egg-skin before it is broken." Mr. Riley, in an interesting account of this creads in his First Annual Re-port on Noxious, Beneficial and other insects of Missouri for 1869, has thirteen-year broods of this insect are found. He remarks: "It was my good fortune to observe that besides the seventeen year broods, the appearthe seventeen-year broods, the appearance of one of which was recorded as long ago as 1633, there are also thirteen-year broods, and that, though both sometimes occur in the same States, yet, in general terms, the seventeen-year broods may be said to his the same that the seventeen said the thirteen said the said to

in great numbers, by half a dozen ob-

servers in this county. As the fruit-ful eggs were at least a third larger

seventeen-year broads may be said to belong to the Northern and the thirteen-year broads to the Southern States, the dividing line being about latitude 38°, though in some places the seventeenyear broad extends below this line, while in Illinois the thirteen - year broad runs up conbrood runs up conaiderably beyond it. It was also exceedingly gratifying to find, four mouths after I had published this fact, that the same discovery had been made years be-

fore by Dr. Smith, though it had never been given to the world."

world."
Mr. Riley predicts
that in Southern
New England a
brood will appear in
1877 and 1885.
Probably the Plymouth brood, which appeared in 1872,

appeared in 1872, will not appear again for seventeen years, namely, in 1889, the two broods noticed by Ruley appearing west of this town. As regards its appearance in Plymouth, Mass., Harris states that it appeared there in 1633. The next date given is 1804, "but, if the exact period of seventeen years had been observed, they should have returned in 1803."

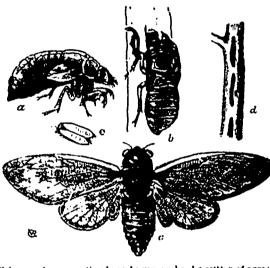
Mr. B. M. Watson informs me from

Mr. B. M. Watson informs me, from his personal observation, that it also appeared in 1838, 1855 and 1872. In Sandwich it appeared in 1787, 1804 and 1821. In Fall River it appeared in 1834, in Hadley in 1816, in Bristol County in 1784, so that, as remarked by Harris and others, it appears at different years in places not far from each other. So that while in Ply-mouth and Sandwich we may look for its reappearance in 1889, in Fall River it will come in 1885, or four years carlier.

There are three species of Cicada in the Northern States, and, in order that they may not be confounded in studying the times of appearance of the different broods of the seventeenyear species, I aild a short description of each form, so that they may be readily recognized in the winged and immature states.

The two larger species are the seven-teen-year locust (Occida septemberin) and the dog-day cicada (C. pruissen). Fig. 9,copied from Riley's report, gives

Continued on page 46.



Cracks and pupa or b , d position of eggs(e) f_s farva. $-\Delta f$ ter Reiliy.

year creada, your correspondent from Haverland College, Philadelphia, is not the only one who has failed to produce the only one who has latted to produce the young by keeping branches containing eggs in their studios. I so failed in 1854 and 1851, and indeed I have never heard that any one has succeeded in that way, who has kept them for any great length of time. In the broad of 1865, the first cicids appeared here in a hody on the evenappeared here in a body, on the even-ing of the second day of June. The first pair in colla, I observed on the 21st, and the first female depositing on the 26th of the same month. The first young were excluded on the 5th of August. All these dates are some ten days later than corresponding observations made by myself and others in former year. On the 15th of July I cut off some apple, pear and chestnut twigs containing eggs, and stuck the ends into a bottle containing water, and set it in a broad, shallow dish, also and set tight a broad, snamed tish, also out of doors exposed to the weather, whatever it might be. The young continued to drop out on the water in the dish for a full week, after the date above mentioned. I could breed no cicadas from branches that were dead and on which the leaves were withered nor from these that from any cause had fallenges the ground, and this was also the case with Mr. Vincent Bernerd, of Kennet Square, Chester Co., Pa. Af-ter the precise time was known, fresh hranches were obtained, and then the oung cicadas were seen coming forth