

habit it is strongly suggestive of *Lepidium draba*, as noted by Meyer in his original description. It may be recognized by its erect habit; clasping-sagittate stem leaves, toothed and with a dense pubescence of fine simple hairs; the long racemes of small white flowers; and the small, globose and inflated, pubescent pods.

Coming from a region similar in climate to some parts of the western United States, this plant may become as widely established as certain other recent introductions. Another Old World plant of the same family, *Lepidium perfoliatum*, has spread with almost incredible rapidity through the Rocky Mountain states during the last few years.

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THE PRIMARY FOODPLANT OF THE MELON APHID

A FACT known to those who are familiar with the habits of aphids is the seasonal migration of many species of these insects from their overwintering host plant to other vegetation which is colonized by the summer generations.

Certain species of aphids are of economic importance only while on their summer (or secondary) food plants, as would obviously be the case if their overwintering (or primary) host plant chanced to be a weed or vegetation of little economic value. Thus it happens that an aphid may be well known for its summer damage to important crops long before its overwintering habits have been discovered.

Such has been the history of the melon aphid (or the cotton aphid, as the same insect is also known in the south). This insect is a noted pest the world over, as it colonizes cotton, economic plants of the gourd family and certain other valuable annuals. It will accept, too, succulent, rapidly growing shoots of some shrubs and trees, and is recognized as one of the orange pests.

Since this insect does not deposit its overwintering eggs on any of these plants on which it is known as a summer pest, and since, in all parts of the country having cold winters, it would be impossible for such an aphid to overwinter without providing for an egg-stage somewhere, it has long been thought by entomologists that the melon aphid must be a migratory species existing during the winter in some unsuspected disguise.

But what plant it seeks for its winter quarters and from what plant it migrates each season when it is time for its summer depredations has remained a mystery.

It has, therefore, been with no little interest that I

have watched the results of a series of experiments which I have recently been conducting with a certain aphid commonly infesting orpine (live-forever). This aphid causes a ruffling of the orpine leaves which renders its presence conspicuous. It has several color varieties—yellow, pale green, olive green, blackish green—the same range of color varieties, indeed, for which the melon aphid is famous. In structural characters, also, the orpine aphid and the melon aphid are twins.

This season I caged spring migrants (winged females) from orpine on squash, where they settled and produced young which have grown to maturity on the squash. I placed infested orpine plants near growing melons in the greenhouse; and some of the aphids voluntarily left the orpine and went over to the melons and there established thriving colonies of typical *A. gossypii*.

It does not, therefore, seem premature to report that the primary food plant of *Aphis gossypii* is *Sedum Telephium*, from which it migrates to its various summer food plants.

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MAINE AGRICULTURAL
EXPERIMENT STATION

ILLITERACY IN THE COLLEGES

I HAVE felt rather out of patience with articles recently published, enumerating gross errors made by students. Our young people now coming into the universities and colleges have not always had the best advantages, and it is reasonable to expect a certain percentage to be ignorant of many things. If I, a mature teacher of long experience, were given an examination in the elements of engineering, the result would be pathetic or ridiculous to any engineer, according to his point of view. Nevertheless it becomes a serious matter if men go through college, and are sent out to teach others, while incompetent to do tolerably good work or write English correctly. In the field of entomology, we have recently seen the grossest errors in the construction of scientific names in taxonomic papers, emanating from workers in leading institutions. The principles of so-called neolatin allow extraordinary latitude, but the errors referred to result from mere ignorance. The other day a man graduating from a reputable college applied for a teaching position in the University of Colorado. He was supported by a letter from his major professor and a photograph showing him in the costume of an athlete. We had decided not to accept him, but before we could write we received a letter, addressed to "Proff. —," stating that "Dr. — of [a large state university] has just made me a very fine assistantship