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"GRASSHOPPERS" OR LOCUSTS.

The destructive insects that have been doing so much damage in and around this city recently, as well as in other parts of the Territory, and that have been passing apparently southeast in such innumerable myriads for some time, flying at a great altitude, have excited no little interest as to what they are, where they come from, and their probable destination. Though commonly known as "grasshoppers," their destructive habits, their power of flight, and immense numbers, led to the belief among entomologists here that they are of the locust family; and on examination they have been found to be so, though not the insect commonly known as the locust throughout this country. The following extract from a very elaborate article on Entomology, published in the Agricultural Report of 1862, commencing page 383, will be found interesting:

Another division or family of the Saltatorial orthoptera is that which includes the Locusts, the most voracious and destructive insects belonging to this or any other order; but more destructive in foreign countries than they have been, thus far, in the United States. In speaking of these orthopterous insects by that name it is hardly necessary to admonish the reader that I do not, even the most remotely, allude to those insects which have incorrectly received the name of locusts in the United States-but which belong to an entirely distinct order of insects-such, for instance, as the "Summer locust," the "Seventeen-year locust," &c. In no other country has a similar blunder been made in the vulgar nomenclature of this insect, and the correction may as well be made first as last. It will be seen in the course of these papers how far these names may be be properly applied to these insects, and the benefits resulting from a proper application of names. Our locusts agree in their forms, their habits, their economies, and their modes of propogation, with the locusts of Africa, Asia, Europe, and especially with the Egyptian locust, of whose destructive qualities we read in Holy Writ and elsewhere.

If priority of nomenclature is entitled to precedence in speaking and writing of any object of natural history, it is the same whether the name is a common or a technical one; and when we know that an insect indigenous to our own country has the form of one belonging to a foreign country, and also agrees with it in all other respects, then, in common language at least, it ought to be called by the same name, where a name has been previously given. This is precisely the case with a family of our "Grasshoppers"-so called without distinguishing between them and the true Grasshoppers-but which all locusts in all the essentials which constitute that family of destructive insects. This also clearly illustrates the necessity of the scientific names of animals, else we could not be generally understood when speaking or writing of any animal by the common names which it may have received in the various localities where it exists.

These insects differ from the crickets and the grasshoppers by having the antennæ short and of equal thickness; by the abrupt deflexion or roof-shape of their wing-covers, which entirely cover the lower wings; by the females not having the sword-shaped ovipositor protruding from the end of the abdomen; more robust, and therefore better adapt- south east over this city. That they lar contrivances, in early morning be- well saturated.

also much greater than the last-named insect, the wings being in most cases developed. These insects, when occurring in large numbers, make a great noise in their flight, the cause of which about the end of August, are in the habit of poising themselves in the air, making a curious rickety noise, seeming to be trying their powers of flight, at its efficiency.

Asia and Africa, particularly, have suffered greatly at different times from the ravages of locusts, and the ground over which they have passed has presented the appearance of having been scorched by fire, so completely has the vegetation thereon been removed, and hence we have the name locust, which enough have passed over here to eat up is derived from the Latin locus and ustus, which means "a burnt place." Famine and great distress, as well as pestilent diseases, have followed the appearance of the locusts in those coun- ter day, for hours each day, clouds on tries, and consequently all that has clouds were on the wing, moving steabeen written in the Scriptures concerning these insects has been fully confirmed by the observations, and experiences of travellers and others in the fields south and west for miles, on met there in harmony. Heredita those countries where they abound. In the benches and mountains around, enemies, as they have been called, ha Central and South America, in Mexico, as well as in some of our Pacific States, allied species of these insects have often occurred in vast numbers and not much ces of their terrible voracity. less destructive than those of Asia and Africa-and especially has this been the case in New Mexico, Arizona and greater number of them came from the times abounded in the eastern, the that the southern part of Cache County, western, the middle, and the southern States, which have been more or less destructive to the blades of young corn, to meadow grasses, and, in short, to al- was visited by another cloud during most every vegetable of an edible character where they exist.

Locusts are generally comprized under three generic divisions, all of which are in a greater or less degree destructive, but still sufficiently unlike to warrant such a separation of species, when arranging them symmetrically. They are so well known under the apple trees, and otherwise manifested common but miscalled name of grasshoppers, that it is perhaps necessary in this place to do little else than just to notice of some of them.

in the States in three classes, he treats gan on Sunday afternoon, the 5th, to name Acrydium (Caloptenus) femur- down covering trees and every kind of rubrum, usually known as the "red- vegetation, hanging in clusters from legged locust," he describes, in the in- twigs and tender branches, and coversect which has been doing so much ing the ground under foot. Apple trees, damage here, the most numerous and pear trees, carrots and corn seemed their most destructive of all the locust family favorite food, for they stripped them of in the United States. His description every leaf in an incredibly short time. any one will take the trouble to care- which was eaten clean away from the fully examine a specimen of the "grass- pits; but the leaves were mostly uninfore them.

the ensuing spring. This is true of twigs. some kinds of grasshoppers and locusts; The amount of damage done in this crops from the time when the first gene- bers of fruit trees. ration hatches out in spring. They also There seems no way of successfully ed with.

pers; and by having the power of flight question, for they have marked their vitality which they pessess during the way southwards to this city and beyond; day; or they can be so caught in a dull very large, the wing covers narrow, and but from what part of the northern re- cloudy day, when the sun is not ship. the muscular power of the thorax much gion they have come does not seem to ing, for then they keep near the ground be yet exactly known. They came into When thus caught they are sometimes Cache Valley last fall, declaredly from boiled and fed to hogs and poultry, the is not easily explained. Some species, the Yellow Stone district, and having latter being particularly fond of them. when fully developed, which is usually done considerable damage there and in some parts of Box Elder county, deposited their eggs, and when the young were hatched out this spring they deand perfectly intoxicated with delight stroyed a vast amount of vegetation such vast quantities, every one should before growing sufficiently to take seek to be ever prepared for the won wing. But the myriads which have been passing over this city surely were never all hatched out from eggs deposited in that section of the country? It does seem, that if they were to alight, all the cultivated lands in Cache in sition will fade away, and before ma forty-eight hours. Being first seen here on Saturday, the 27th ult., day afdily and rapidly overhead, while myri- notables from many lands. The rep ads on myriads alighted in the city, in seemingly resting for a few days; and apparently fraternized together. Ith in that time they left abundant eviden-

We have been informed that the Utah. Smaller species have at various Salmon River region; and we learned which was almost delivered from them on the morning of Sunday the 4th, that day which likewise came from the north. In North Weber Valley there Turkey; the King of Prussia and high have been great numbers which have done immense damage; and in Davis presented in the son of its Tycoon County, on there way south, they have destroyed much of the corn, stripped their destructiveness.

The mode of their operations in this give a few illustrations and a passing city and neighborhood has been very simple. After flying for a time at a After classifying the locusts found in very high altitude, numbers of them beupon each at length; and under the fly low, and towards evening settled of the insect need not be given, for if Peach trees suffered some in the fruit, hoppers," or locusts, that have been jured. Oats, barley and wheat, where swarming around, they will have it be- not ripe, suffered severely. It was a curious looking spectacle to see apple An idea has been entertained very trees stripped of everything except the extensively that these insects pair in fruit, and much of that eaten into the September and October, and that im- core on one side, after the voracious inmediately after the female deposits her sects had cleaned them of leaves, in eggs, which remain unhatched until some instances devouring the tender

but the "red-legged" locust is capable of city and around it would be difficult to a much more rapid increase, one gene- estimate. It is probable that in Cache ration succeeding another in the same County there will not be more than season, and all possessing an immense one-third of a crop left. In Box Elder voraciousness from the time they are County, North Weber Valley, Weber expelled from the egg. This accounts County and Davis County they have for the different sizes and different been very destructive in places; and in stages of development in which they are various parts of this County south of found at the present time; and for the this city, they have devoured much unterrible damage which they do to young ripe grain, and destroyed vast num-

possess powers of flight, and a capa- driving them off when they settle down bility of migrating from one district, in a locality. They can be dislodged when devastated, to another where they from particular trees by kindling small can recommence operations, such as, it fires of straw, a little damp, underneath, is believed, no other insects are endow- and shaking the branches. Then they will rise, and the smoke compels them We said in the first sentence that to leave. They can also be caught in and by having the legs shorter and they have been passing apparently large quantities with bag nets, or simi- fell heavily and steadily, until the ground was

ed to leaping than the true grasshop- have come from the north there is no fore the heat of the sun gives them that

That they are a destructive agent whose advent all dread, whose departure all rejoice at, none can doubt; and coming as they do, unexpected and contingency that might follow their pearance.

## THE GATHERING OF MON-ARCHS.

With the waning summer the sho glitter and attraction of the Paris Ex months elapse the whole will be a p of the history of the past. Paris glittered with crowned heads and th retinues; with princes and nobles; wi sentatives of many rival nations ha been a gathering of monarchs, a holid for France, and a period of festivities the cosmopolitan crowds gathered the licentious capital of the gayest n tion on the earth.

Outwardly all has been joy, peace harmony, good feelings and fraternald sires, among the potentates who accept ed Napoleon's hospitalities. The En peror of Russia and the Sultan dignitaries from Austria; Japan was n England by the Prince of Wales; and other nations by the highest noble short of royalty, while the rulers of less er dominions were numerous; all meet ing in Paris during the present summer And, to look at it casually, many would think, as was said of the World's Fai in London, in 1851, that a new era peace was inaugurated, and war would become a thing of the past. But amid all the show of amity

manifested by the crowned heads and national representatives who were th guests of the French Emperor, but fer who viewed them imagined for a me ment that there was anything permi nent in it. The surmise, freely throw out, that they were but seeking to d vine each other's purposes, trying t understand each other's hidden policy and endeavoring to find out how each could most successfully pursue hi schemes to a successful issue, tells how thinking men viewed the hollow pre tensions of friendship which were then so abundant. When returning from the show, and gaining again their own de minions, thoughts of triumphs over their enemies, victories on the battle field, extended dominions, greater pow er, and more subjects to be awed by their frowns or elated by their smiles probably occupied a large share of their minds, unmixed with the groans of the thousands to be slaughtered in accomplishing their purposes. With the close of the Exposition, the

probabilities are that war will be rapidly prepared for by more than one power on the continent of Europe; and that the seeming peace, glitter and show, which were the special marks of the, monarchial gathering, were but like the intensely brilliant sun-shine and the sultry heat of the summer day, which precede the fierce and gathering thunder-storm.

STORM.-On Saturday we had a regular rain storm of some hours duration, duly inaugurated with thunder and lightning. The rain