SHORT CROPS AND THE RESULTS.

Discouraging reports of crop prospects are brought from beyond the Atlantic. The shortage in the product of cereals and hay is marked and a source of forehoding. This is had in one sense and perhaps fortunate in another; had because of the suffering that must result therefrom during the winter months at least, and fortunate because it may prove the means of warding off a greater calamity—war, Russia wants to control as much of Asia as is contiguous to her already vast possessions, and the slaughter of a million or so of men and the lucurring of such colossal indebtedness as no one generation could pay would be small considerations with the Mus-covite power if it could only know that subsistence for man and horse was in abundance.

Theo, again, the loss of Europe is the gain of the United States. Not that we should or would willingly profit by others' misfor-tune, but such is the logic tune, but such of the situation and we could scarcely evade it if we would. Here we are having a magnificent grain and hay season, aibeit not quite so large as last year because of the decreased acreage-so- Dy-and perhaps forty and it may be fifty per cent or it can he spared. Grain, especially wheat, is always a standard article in market, hut with the the Liverpool European shortage universal or nearly so the price would increase immensely; and hay is now selling in London at \$40 a tot! With cheap transportation what a harvest of gain this one item would now be to us!

We are advised that the official returns of the harvest prospects in Germary show that the outlook, which not very bright last mouth, has WB8 hecome most serious, especially with regard to the hay barvest. Some papers urge the suspension of import duties on folder, and others recom-mend also the free importation of cats and maize. In Bavaria, Hesse and Alsace-Lorraine the local authorities are setting on foot active measures for the relief of the dis-tressed peasantry. This does not look very much like readiness for war, either. It is scarcely to be wondered at that on scanning the returns from elections in Germany the late Chancellor Caprivi was enabled to declare that it was "no victory;" people who have not enough to eat son etimes feel savage hut not exactly warlike; fighting somebody else for a monarch? selfish aims is about the last thing on the program with them, and there is no nutriment even in a condition of increased militarism.

ELECTRICAL DANGERS AND DAMAGES

A suggestion has been made in the city of Newark, N. J., that managers of city waterworks whose underground pipes are paralleled by electric street car lines on which high currents are in use should be on the lookout for the destructive effects which have lately heen observed and even experienced in other cities. This is not out of place here, where our street railway and telephone wires are not only numerous

hut lengthy, necessitating very power-ful currents all the time. They have not so far proved too heavy for their conduits, but whether they could withstand a strong counter attraction elsewhere or not is the question; and he-sides, the wires, conformably to tracks and suburban additions, are constantly being extended, making it userssary to proportional ly raise the electric current without enlarging the wire's capacity for carrying it.

The following extract from a paper published in the city spoken of is also applicable here:

A current of great volume and nominal pressure of 500 volts is sent out over the main supply wires from the power house This tremendous current passes down the trolley arms of the cars, operates the motors on the trucks and then goes out through the wheels to the tracks, which are supposed to conduct it back to the source. The tracks are never insulated from the ground, which is a fairly good conductor of electricity. The joints of conductor of electricity. The joints of the rails are electrically connected, and hetween the tracks there is a good copper conductor connected at intervals with the rails and running back to the dyna-mos in the power house. It was expected that these provisions would confine the current to the straight path home, hut it did not do so in any instance.

Those who do not already know it are advised that it is a peculiarity of electricity that if it finds two con-ductors of different resistance it will divide hetween hoth in a proportion in inverse ratio to the resistance of the conductors. Thus the current after reaching the ground finds that there is a water main or a gas pipe paralleling the tracks. The pipes are fairly good conductors and the current divides between them and the path provided by the company. Through the pipes the current ramifies in every direction as it proces ds upon its homeward way, and it sets up an action due to differences of potency and resistance which corrodes away the metallic matter just as a silver anode is caten away in a plating solutiou. The pipes gradually become thinner and thinner and are finally honeycomhed by the poweriul agent so quietly at work. It does not require much time to destroy a lead, iron or copper pipe placed in moist ground. Its destruction is not a question of years, but of weeks. So that we are constantly menaced by damages if not dangers underfoot as well as overhead.

In Boston these troubles have 80 perplexed the managers of one of the railway systems that they have devoted large sums to the employment of scientific and expert men and methods. Similar troubles are report-ed from Chicago, Cincinnati, Indianapolis and Los Angeles. It is explained that in places along car tracks where the copper conductors are eaten off, if a person places his foot on the rails at such place he will obtain a shock of greater or less intensity; the rail not being grounded and the current seeking the earth will pass into one leg and through the other to its destination.

Professor Weston, the noted electrician, was asked how the difficulty (of electrolytical decomposition) could be met and replied that it could be done in ore way only, if a single trolley line continues to be used (as is the case came under the observation of the old

here) with the easth in circuit, and that is by insulating the pipes in some moisture proof material. "With a double trolley road, that is with two wires above the car and two trolleys, there would be none of this trouble. The managers of electric roads in Newark are keeply aware of the ray. ages of electrolytic action, but as yet have had no complaints either from the water hoard or gas companies." The professor, however, did not mention the other trouble sooken of-the disposition of over-charged wires above to "unload" on the first object capable of containing or transmitting th surplus; when this happens to their B. humau or other animal it generally means death.

THE BEGGINNING OF WRITING.

A distinguished German, R. vom Liliencron, has an article in a recent number of the Deutsche Rundsohau on the subject of the origin of writing. It is quite interesting, to those philologi-cally inclined decidedly so. He shows that it was somewhere near the beginning of our ers, and he thinks not later than the second century, that this communication was given to the Tentons. Some shrewd old Germans were awakened to the signification of letters is used by the Romans for com-municating ideas. The German people were uensely ignorant, according to facitue; they knew nothing of corresponding by letter, and if the wise men of that day had known the art of writing, the wisdom of love would soon have found a way to acquire it alse

The writer disclaims mockery in describing writing as a high and secret art. Nowadays, when even young people are proficient in it, it may ap-pear to us childishly simple; but placing ourselves in faucy in primeval times, is it not a fundamentally wonuerful conception that the whole wealth of sound and tone in which we reveal all our inner thoughts, sensations and imaginings, could be analyzed into some four and twenty distinct sounds, capable of being represented in visible characters. The discovery of printing in the fitteenth century arouses our justifiable admiration. But infinitely more important and truitiul in results was the ancient discovery of the four and twenty symbols through whose medium human thought could be materialized and tra. sferred to other minds. For all the civilized peoples of Europe the dis-covery was made only once, and from one point has spread out on all sides. All our alphabets, however much they may have varied in the lapse of centuries, are modifications of one and the same primitive alphabet invented hy some old Asiatic-Semitic race in the uuknown last. In Europe the Greeks were unquestionably the first to pos-eess an alphabet, and they got it from the Propulgiane. The name of the alphabet is itself evidence of the fact, for it is composed of the names of the first two letters in a Semitic series, aleph, beth, whence the alpha-beta, which is said to have no siguification in Greek.

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