Australian Wheat.

Alderman Mechi writes as follows to the Agricultural

At various times I have sown among my own wheat crops portions of fine wheat sent to me for trial from Australia. In every case, the plants just before development have become blighted and worthless, although the home-grown wheats within a few inches of them came to perfection. This puzzled me extremely, seeing that the Australian samples were of the finest quality. I then remembered that our own wheat had, before being sown, been steeped in a solution of blue stone (sulphate of copper) which prevents blight, and that we had omitted to do this with the samples of Australian wheat, but we did steep the last sample, which is now in full car without any symptom of blight or disease. It is fully ten days forwarder than our own wheat growing near it, although sown the same day.

As we hear of such ruinous losses by blight in our colonies, I think it most important that the steeping process should be there generally adopted, as it is by all good farmers in this country. We use 1 lb. of sulphate of copper to 10 quarts of water, the wheat is steeped in this for ten minutes, and well stirred, or the wheat is put on a floor and saturated with this solution. Whenever we have omitted to steep the grain, the crop has proved more or less blighted or smutty.

less blighted or smutty.

I am sorry that I did not leave a portion of the Australian wheat unsteeped; this should be done as a comparative test. The saving of a fortught in time in late districts would be a considerable advantage. The wheat was sown the last week in November. It looks a promising well-developed crop—This wheat tillers rather less abundantly than home-grown, but would probably become more vigorous by acclimatisation.

Correspondence.

A SUSPECTED SWINDLE, S. C. Harrison, III. "We are making enquiries about the person you name, and, if we find him to be a windler, we will publish the fact.

Horse with Swelling on Let. Subscriber, Miriposa. -Your enquiry came too late for insertion in its proper department. As far as we can tell, the treatment has been correct. Send us your name, and we will reply more fully

PROTECTING CARRIEL PLANTS W. H. M., Upper Woods Harbor, N. S. Winding paper around the stem of the cabbage plants, and leaving part above and part below ground, is an effectual remedy against the grub. Dusting with air s'a ked hare or wood ashes will prevent the fly from attacking the leaves of turnips, etc.

Potato-Biossovs, A. D. R., North Wellington, We have heard that picking off the blossoms from growing potatoes increases the growth of the tubers, but never tried it, and therefore do not know whether it will do it. Suppose you try it by picking a row side by side with another which you leave unpacked, and let us know the result.

THE MOUSE-THAP IN THE MARCH NUMBER. -- George Duncan, St. Malachi. We do not see that the trap needs any explanation. The bait is placed in the centre and the mice are free to run in and out as they please. When they get to feel at home, plug the holes, carry trap and contents to a place where there will be a clear course and no favor. call the dogs or cats, and then let out the mice.

Rose-bug-Macrodactylus subspinosus. - D. A. Purdy, Nowbury, Ont -The insect you send us in reply to our request in our last issue, is not the insect which does the sewing machine work on the grape-vine, specimens of which you previously sent us. The insects last sent are the Macrodactylus subspinosus, Rose-bug, which in the beetle state preys upon the grape vine. The eggs of this insect are laid in the ground and the larvæ mature there.

HEDGES. -Subscriber. -The fastest growing hedge-plant that will stand the climate is, undoubtedly, the willow, but the willow hedge is a delusion and a suare against which

Miscellancous.

Giant Powder.

Dynamite, or giant-powder, may be transported by all ordinary means of conveyance in every climate and temperature without danger of explosion. Several European Governments allow it to pass as common freight. secret of its safety lies in the fact that the absorbent is soft, compressible, and clastic, and is no more affected by a blow than is a cushion. It has been subjected to the soverest tests by scientific men and experts of every sort, and has proved by its conduct that the only means of exploding it is by a large and powerful percussion-cap. In contact with fire it burns to ashes like saltpetre paper. A lot of \$,000 lbs. has been burned at thee without exploding. It may be poured upon a red-hot plate, or a red-hot poker may be thrust into it; a box of it may be thrown upon rocks from any height, so that the box is shattered; heavy weights may be thrown upon it; it may be beaten with a sledge-hammer; it may be held in the hand and set on fire, and when half consumed be extinguished with water : all this may be done and the powder will refuse to explode.

There are two kinds of dynamite. One is composed of 75 per cent. of intro-glycerine and 25 per cent. of infusorial The other has much less nitro-glycerine, the deficiency being supplied by nitre, saltpotre and rosin. The second is not so strong as the first, and is only half as costly. The substance has the look of dirty corn-meal. "It explosion does not take place like gunpowder, burning from point to point, but the entire mass, however large, bursts at once, as if the band that held it were cut and the shatters the hardest rock place at the same instant. It shatters the hardest rock as if it were the most fragile of things, and reads wrought-iron and steel as if they were reg. The slightest charge of it in the heaviest rifle or a muon tears the sum into a thousand pieces. It is as good in water as out. If turned loose into a bore-hole filled mather at the side to the letters, it travel by the rectangle of the restaurance of the second contraction of the with water it sinks to the bottom is tamped by the water and explodes with full effect.

As dynamite contains nitro-glycerine, it is supposed to be dangerous to transport, yet it is in truth quite otherwise. Congress has made it a misdemeanor punishable by where Congress has name to a insteam paintain paintaine or dangerously explosive substances without disclosing their character by labels on the boxes or vessels containing them. A late trial before a United States Court established the fa t that dynamite cannot be reckoned one of these sub uf. m: ca.

Marks on Trees.

An old surveyor sends Dr. Asa Gray some interesting observations on marks on trees .- For several years before the war I was the surveyor for Davidson County, Tenn. in which the City of Nashville is situated. A large part of my duty was running old lines established by former surveyors, numbers of which had been cut fifty to sixty years before. These lines were indicated by hatchet marks apon the trees, through, or near which, the lines ran-Three chops with the hatchet about 4 inches apart, breast high, was, and is, the recognised mark for surveyors' lines. So uniform were the marks given to the trees by the old surveyors that by practise in noting the position, depth, angle, width, and distance apart of the marks. I could generally tell what surveyor had run the line. Very old lines through bottom lands had often been surveyed on horse back, and in such cases. the marks would be found 7 or 8 feet from the ground.

It may be interesting to know that the most permanent marks are those in which the hatchet does not go through the bark. In such cases the marks were as plain and sharp after fifty years as when just made. If the sapwood was touched ever so little, the edges of the cut would widen and fresh bark would be made, and this being smoother than the old bark and surrounded by a sort of lip, the whole would, as the tree grew old, assimilate in appearance to the rest of the tree, so that only a practised eye could detect the mark at all. If the chops were very deep the bark between them would be thrown off by the tree, and all replaced by new bark, and present a blur, which, the true would be very bard to recognize and such a tree. in time, would be very hard to recognize, and such a tree

with the number of years since the survey was made, and thus carry the most convincing proof that the tree was marked at that time.

The point, however, in which the present interest lies is that among the many tlousand marked troes I have examined I never new one in which the distance of the marks from the ground, or each other had varied from the general practice of surveyors. Many of them had been so marked in the presence of old settlers who accompanied me in the re-establishment of the lines, and I never knew of any change being spoken of in the appearance, except by being cut too deeply. Many of the marks were the subject of especial study to me; but I never met with or heard of marks that had grown up a tree or that had widened apart out of the surveyor's customary limit. In some instances the original level of the soil had been changed by being washed away, but this was only on hillsides, and easily accounted for, and proved by other trees

changed by being washed away, but this was only on hillsides, and easily accounted for, and proved by other trees
and circumstances.

The habit of bears of standing up against Beech trees
and scratching them with their clares somewhat as cats
do against table-legs is a case in point also. No bears
have been found in Davidson County for the last fifty
years, and I have had pointed out to me trees that had
been scratched all round in this manner, and although the
same trees would be marked by the climbing of the lear,
yet the peculiar marks made by this playful scratching
were never any more than the usual distance from the
ground. I know a place near Nashville, where, about
forty years ago, a Cedar-wood scat was put between two
close growing trees by notching it into cach one. The
trees have grown quite large, and entirely round the ends
of the board, but it is exactly the same height as when
first placed. I also know where I cut my initials into the
bark of a young Hackberry tree with those of a young
lady; this was twenty-three years ago, and the marks are
there at the same height. These last, however, are special instances, and only prove the habits of Beech, Elm,
and Hackberry trees, while those of the surveyors' marks
comprise all kinds of trees indigenous to this country, and
extend through such periods of time as give very complete
observation. extend through such periods of time as give very complete observation

About Bricks.

Few materials for building are in more constant use than _ bricks. Even where stone is the principal article used in the composition of a building, bricks are wanted for linings, flues, furnaces, ovens, and a number of other purposes. The properties of bricks should vary according to the purposes to which they are to be applied. A brick intended for building should be so solid that it may be neatly cut, and baked at a temperature sufficiently high to prevent it being disintegrated by atmospheric influences. A good brick for an ordinary building will support a considerable weight without being crushed. It ought not to crumble in water nor to absorb too great a quantity of it. This question is tested by weighing the brick before and after

mersion is tested by weighing the brick before and after immersion in water.

Earths are often found which, without preparation, are fit for the manufacture of bricks for building purposes. Indeed, the common yellow vegetable earth will generally answer. In the construction of funaces, the bricks to be used ought to be such as will longest resist the askes of the combustible.

combustible.

compusions.

Fire-bricks are made with plastic clay, containing neither gypsun, lime, or oxide of iron, which color bricks red and render them fusible. The clay is first washed to free it from the foreign substances which it contains. It is them reduced with cement of burnt clay, made expressly for the purpose, and powdered. Even the purpest sand, mixed with clay, would not make infusible bricks.

with clay, would not make intusible bracks.

Bricks are formed either with the hand or by manufacturing appliances. Two men with the hand can make from six to seven thousand bricks per day. They are burnt either with turf, coal, or wood, according to convenience, the latter being generally used in this country. The kilns are built almost entirely with the bricks intended to be burnt, the base of the kiln being the only part made of old bricks. A kiln contains about four hundred thousand bricks, and it requires about five days to hurn thousand bricks, and it requires about five days to burn

The Flemish process, by which the bricks are burnt with coal, is the most economical. The manufacture of bricks in St. Louishas assumed mammoth proportions, and they are becoming famous for their surpassing excellence, many persons prefering a front of them to one of stone. Milwankee has a clay which gives a peculiar light-yellowish tint to the bricks made there, which, when judiciously contrasted with trimmings of dark colors, gives a very pleasing effect.—Builders Journal.

REAL AND APPARENT DEATH.—A memoir has just been published by Dr. Ange-Monteverdi on a simple method of distinguishing real from apparent death. The plan suggested consists in the subcutaneous injection of a small quantity of strong liquor ammoniae. When injected into we caution our readers. We have seen a tolerably good willow hedge, but for one good one there are many that are nothing but an eyesore and a nuisance. Buckthorn is the best and hardiest hedge-plant that we know of. We will probably take up the subject of hedge-growing shortly.