The electric lucomotive had a slight advantage over the steam engine in weight on the driving wheels, and this advantage soon made itself felt, for the electric macbine soon began pul-ing the other, and drew it up and down the track with apparent ease. For the same weight upon the drivers, It was shown that the electric lucomo tive will start a greater load than the steam lucomotive, the pull being corstaut throughout the entire revulution of the wuest, the difficulty of variathe steam locumotive being eliminated.

As to speed, the electrical ma-chinery has not been geared to the high rate of sume of the steam Lecomotives. Those to be operateu at Battimore are provided for a meximum speed of fifty miles per hour. This is reduced to thirty oiles upon exerting only the half draw-har pull, and to fitteen miles with the full draw bar pull. The average apred of the loaded train will be thirty miles per hour; the electric locumotive can be

The great saving in electricity over steam for roads where there is a large amount of traffic is variously figured at from thirty to fifty per cent in operating expenses, while there is also a large saving in the cust of construction, even when the generating plants, are taken luto consideration. Upon this showing, therefore, railway construction and operation is sure to tend in the direction of electricity, Which has been so successfully adapted to the operation of attest car lines and ls now putting forth its arms to eniold in its embrace more extensive enterprises.

THE THISTLE AGAIN.

The Russian thistle, whose accidental introduction into Bouth Dakota in some flaxseed in 1578 has been followed by its apread over a large part of the country, has been made the subject of a government bulletin. In this it is stated that the plant, which is more akin to the common tumbleweed of the plaine than to a tristl, bas spread, during the twenty-one years sluce its latreduction into this country, with greater rapidity than any other weed. Ninety new l. calities were reported to the department of agriculture during 1894. It now occurs in places from castero Ontario and western New York to the western border of Idaho, and from Manitoba to southern Colorado, being most abundant in South Dakuts and adjacent states. Bixteen states and three Canadas provinces are known to he injected, and, although not reported, it is thought to be present in Missouri, Oregon and Washington.

The department is specially desirons of impressing upon the inhabitants o those lucalities where the Russiau thietle has not yet gained a footh ild that its spiny character, added to the rigid, busny habit of the plant, makes it one of the most disagreeable of weeds Wuen mature it cannot be to handle.

ance and positive injury to men and ani. of the most dreaded scourges of manmals which they cause by their rigid spines is undoubtedly greater than toat caused by any of the true thistles.

A "warn'ng to Pacific coast wheat growers's is issued as follows:

East of the Rocky Mountains the thistle is already so widely distributed that its continued progress in that region is inevitable. Its advent in Idaho, however, is a far more serious matter. The Rocky Mountains present a grea natural barrier which the thi-tle will not easily pass, except by arthreal conveyance. With the natural couditions thus favurable to its exclusion and with a full knowledge of the disastrous usuare of the scenario technique. the scourge, it is almost criminal to allow it to become established west of the Rockies. To the Pacific coast the Sierra Nevada and Cascade mountains afford additional protection, but some seel will and thouse protection, but state see a thin he sure to find its way over this barrier also, especially if the thistie is allowed to obtain a hold in the Great Basin. In view of these facts the California wheat grower should take precautions agains the weed, opposing both is direct intro-duction into California from the plains east of the Rockies and its gradual advance by way of the Great Basin.

A number of remedles are suggested, am ng which is the destruction of the plant before August, in which month it produces seed, and as it is an annual, heartig from 20,000 to 100,000 seeds tu the plant, this remedy might prove effective in destroying it if there were co-operative action in affected localities. As a suggestion of some or the points or introduction to be guarded, it is stated that the plants usually appear first close by the ends of the tree along railway tracks where the seed falling from the cars finds conditions favorable to growth in the unoccupied soil, kent stirred by repairs on the tracks and the ballast. The cases in baled bay and grain at fair grounds, race tracks, lum-ber camps, and railroad construction camps. They have also been carried camps. They have also been carried in shelled outo, wheat, oats, millet, flax, alfalfa and grass seed. They are supposed to have been brought to some localities in Idabo in sheep's wool; worle the seed has no books, harbs, or gum to cause it to stick, its small and light weight coable it to retain a piace for some time in a fleece. tu a locality it has been distributed by runoing water over a large area. It bas not yet appeared in Utah, but from its close proximity the farmers here should be on their guard against this new foe to the agriculturiet.

CURE FOR CONSUMPTION.

Following the wonderful discovery of the power of anti-toxine to arrest the progress of diphtheria is the ancouncement of the equally startling experiments with serum for the purpose of curing consumption. At eminent physician of St. Luuis, Dr. Paul Pequin, has for years quietly pursued his inquiries in this direction utas wou si bna to be prepared to give

kind.

It has been pointed out in these columns that many diseases are due to the invasion of the human system by exceedingly small organisms against which, according to the latest discoveries, certain particles of the blood and be lymph wage a constant war. If consumption is the result of the victory of the invaders over this army of detenders, it fullows that when the latter are sufficiently reinforced by lujecconsequence will be the destruction the eurmy and a restoration of health, There is, therefore, nothing unreasonable in toe supposition that a remedy is to be found able a remedy is to be found even against a rickness hitherto considered incurable, and it is to be hoped that Dr. Paquiu's experiments have proven successful. That would indeed confer one of the greatest buous on mankind, since a large per cent of deaths every year is due to consumption in one form of another. It would be another victory of acience over death itself.

It is, of course, too soon at this time to form any opiulun as to the actual merits of the new remedy. It cale and under various condi-tions. At present it is sufficient to remember that several must first be tested on an extensive once considered atmost beyond control. are how easily cured. As soon as the true causes were found, the remedy was readily discovered. The incura-uility of most diseases depends probably on a misunderstanding of its causes and con-equent misapplication of remedies. Why then, should consumption not be curable by a treatment ounded on the correct understanding of the causes to whice it is due?

THE ACCOUNT in a telegram from . Sacramento of the burning to death of. two eniluren calls attention to an all too prevalent practice todulged in hy some people who live here—the locking children in ususe when parents or guardians-leave home. I a child is fit to be left even for a short time without the care of an older person, it is capacie of helug trusted with un unlocked door. It is oriminal for any mother or guardian to leave little ones locked in a house ap that they cannot escape to case of necessity. Fires in dwellings almost tovariably arise from causes within the buildings, and the inmates usually can escupe if the way of egress is not obstructed. The locking of children in houses, helpless victime to the chief danger which threaters on such occasions, is so fuolishly criminal that it never can be regarded as the act of a thoughtful parent.

George Williamson, a resident of Laramie and a brakeman of the Union Pacific, was killed at Medicine Bow on Sunday afternoon while setting a brake on a coal car. He fell from toe car in front of it. The wheels did not touch him, but he was caught by the plowed under, and it is noten impossible to plow fields at all until the thistler are removed. Bioners cannot be run where the thistles are abundant, and even the vorking of the headers is seriously interfered with. The annoy-