dwells in the fields." The only inhabitants of the Campagna are the shepherde, armed with long lances and mounted on small and hardy horses, who are occasionally seepffollowing or searching in the wilds for the herds of eavage buffalues and other cattle; and the fow wretched beings that are to be found at the post-houses.
Many attempts have been made, but with partial success, to drain the Campagan About three centuries before the Christien era, Appius Claudius, the censor, surnamed the Blind, stoodfforward as the first restorer;of this tract of country. He carricd across the morass the road which is still known as the Appian Way, which in magnificence has never been surpassed. It was not, however, till a centuryand a balf after the making of the Appian Road that Cornelius Cetherus, the consul, undertook to drain the Pontine Marshes. Dugdale, in his "History of Imbanking and Drayning," quaintly tells the story:-"In the'year 593, when $Z$. Amicius Gallus and Mr. Cornelius Cethegus were consuls, the Senat being in cunsel concerning the provinces, because these bremed net euficient use against the enemy for the ordidary furces of both the consuls (which are four legions besides the Ausiliaries and Socii), there was a motion made concerning the improvement of a great level of waste land lying under-water about forty miles from Rome, in Latium, which business was entertained with great approbation....... The consuls A ${ }^{\circ} 566$ had herein given a president, who, lest their soldiers should be idle, employed them in making highwayes. Hereupon it was decreed that one consul should attend the eatmy (in Gallia), and the other undertake the drayning of the lompeine (Pontine) Marshes." The efforts of Cethegus were transient aud impotent. Julius Cwsar found this large tract of country a prey to new desolation, and was about to restore it to fertility, when death suddenly put a stop to his p'ans. Augustus took up.the work, and cut alongside the Appian Way a canal :ryich was destined to receive the stagnant water, and to afford it an outlet. It was on this canal thataHorace and Jæcenas embarked on their way from Rome to Brundusium After Augustus came 'rajan, who was followed by Thwodoric, and, in more modern times by several of the popes, who attempted, with partial success, the restoration of the territory. It remained for Pius VI. to do more for the Campagna than any of his predecessors had been able to effect. Immediately after his accession, he werit to visit the Campagna. Ono of his biographers states that "He shuddered when, from the top of a hill, he saw at his feet the deep ravages of time, and of the inundations, the pestiferons fogs, which exteaded far and wide, and the dangers which ever threatened his sacred person, should he dare to tread the unsolid ground." On his return to Rome, he established a bank, onder the name of Monte dei Marecagi, to receive the funds necessary for the enterprise. and in a little time the voluntary subscriptions amounted to 120,000 Roman crowns. "Belognini, one of the engincers whose plans had been submitted to Pope Clement XIII, was immediately put at the headiof the underhking, and in 177\% Sain, an cminent surveyor, was ordered to draw a plan of the ground, and to indicate the spats in which the works, might be begun with the greatest probability of success Pius succeeded in draining 9,000 rubbi which were constantly under water.

The work that Pius VI left off is to be taken up-in tact, is alreadr begun-by the Eing, at the earaent entreaty of Garibaldi. The king has heared the subscription lists, which are being rapidly filled up With the runderfil appliances of the present time, it is to be boped tha' in a $f t w$ years mure improvements will be efferted than in the huudreds of years that have elapsed since appius 'I audius was Censor of 'iorre It is ccarcely too mach to expect that Garibaldi may goide the ploughshare through the same fields which were cultivated by. his great prototype, Cincinnatus.- The Builder.

- For Goncral Garibal in's scheme for direrting the course of the Tiber and iumproving the Campagna 100, opy, roonting franes aro needed The zhares aro to bo 100 frances each. Tho King promisos to use his infuenco in ofder to induco the tioreromont it, fuaraoteo 5 per cent. His Majontr hoads the sharo-list. Garibaldi is said to be anxious to put himsolf in communication with consinecrs. Ho has addressed a
 tho English peoplo fill sapport tho project for the divorsion of the Tiber and the improromontiof the Akro Hort ano. I piopose that tho thares xhould be 100 lire each, $\begin{gathered}\text { tith a canranteo from tio lahan } \\ \text { Gorcramont." }\end{gathered}$

In Ir is ex rectod that 500 men will be at work ou the railmay in Pontiac county by the list of Jene next.

## MISCELLANEA

Canaija owns cir83 vessels of various kinds, gauging $1,0 i s$, 718 tons.
'Ine long pending contract for building a railroad 850 miles long from Leredo, on the edge of Texas, to Leon, 283 miles from the city of Mexico, has been sigued by the Mexican President. The building of the route from Leon to the city of Mexico will be in the hands of a different company.

Wirn the exceptior of small orders which are sometimes sent to Smyrna cummission agents for crade stone to be directly shipped to the United States for uso of American crushere, the entire product of emery is sent forvard by the contractors to England, and all crushers are supplied from the stock of crude stone there.
Tus Mount Cenis tunnel cost about 560 per lineal font. This outlay included: however, the equipment of the road, \&c. The Terre-Noire tunne: on the Yaris, Lyons, and Mediterranean Railway, cost about $f 10$ per fout. The Hoosac tannel, which is carried through a formation of mica slate, and quartr, cost £60 per lineal foot.

Experingits in Sugar Bert Culture-The following is a summary of the results of field experiments on thirteen farms in various parts of Germany in the culture of sugar beets. Eight tons of farmyard manure per acre gave upon a plot of a certain size 2,020 pounds of beets, with 135 per cent. of sugar, 1,120 pounds of Peruvian guano, "dissolved, " or treated with' sulphuric acid, per acre, gave 4,592 pounds of beets, with 14.1 per cent. of sugar. The manured plot gave at the rate of 289 pounds of sugar per acre in excess of an unmanured plot, and the plots in which guano was applied an excess of 508 and 640 pounds respectively.

Tres culture in the Giited States is becoming quite extensive. Under tho Act of Congress ofering 160 acres of land to any person who would plant 40 acres of them to trees and caltivate them for eight years, about 1,100 persons, it is stated, had taken up 170,000 acres of land in Minnesota, up to January. By the effort of the State and private and associated effort, it is estimated that $25,000,000$ trees are now growing in Minnesota, besides those planted under the congressional act. A report on the subject says that the cost of planting and of cultivation is marvelously small, in many cases not exceeding from two to five cents a tree. The ariificial culture of trees is coming more and more in vogue in Califoraia, and the demand for young trees to set out, this spring, is said to be very large.

Work on the bridge over the Missonri river, at Atchison, 18 progressing as rapidly as possible, and the structure will doubtless b: complete within the stipulated time. The American Bidje Co., of Chicago, is performing the mork. The bridge will be 1144 ft . long, exclasive of approaches. It will consist of three fixed spans, each 260 ft . in length, apd one draw span 364 ft . in length. The grade of the bridge will be 1 uft. above the high water mark of 1814 . Th approaches to it will descend so as to reach the second grade at Sccond-street, and the eastera approach will descend with a grade of 52 ft . per mile, for about a quarter of a mile, where it reaches the level of the Hannibal and St. Joseph and the Chicago, Rolh Island, and Pacific railroads track. The bndge is louated just south of Main-street, directly opposite the termina of the Atchison, Topeka and Santa Fe and the ccatral branch of the Union Pacinic Railtoad tracke, and nes.ly opposite the depots of the Atchison and Nebraska and Missonti Pacific railroad.

As enterprising Canadian has created a good deal of jealousy amony American contractors who are anxious to improve the Sault Ste Mario Canal by underbidding them. The Osrecgo Trmes alludes to the matter as follows:-An interesting question has been submitted to the Secretary of War. There are twenty-seven American bidders for the stone contract for the improvement of the Sault Ste. BIarie Canal. The amount of appropriation is $\$ 300,000$. The Marblehead quarry near Toledo is the lowest American bidder. There is a Canadian bidder, who has quarries near St. Catharines, Ont, who has slightly underbid all tho American bidders. The poini raised is whethe: the Sccretary of War is to construe the words of the lowest bidder to comprehend foreigners.

