A New Poison for Rats and Mice.-At the Zootechnical Instituto, in connection with the Royal Agrionltural Academy at Proskau, a series of experimenta has been carried out upon the comparative activity or inactivity of the various poisons most commonly employed for the destruction of rata, mice, and other rodenta. The renult of these are now publinhed by the director of the Institnte, Dr. Crampe. Of all the malerials experimented with, the most effiancious proved to be precipitated carbonate of baryta. This occurs as a heavy, line, white powder, devoid of taste or amell, and can be purchased at any ordinary drug atore. In the experiments of Proskau, a portion of it was mixed with four times its weight of sonnd barley meal, and made into a stiff paste with water, and small pelleta of the soft cake introduced into the holes of rats, house mice and field mice. One great advantage of this proparation is that the amallest quantity of it proves fatal. Further, it appears to cause immodiate and complete paralysin of the hind extremities, so that it may be anaumed that mice eating of it in their holen will dio within them, and an not prove destructive in their turn to domesticated animals that might otherwise devour the carcames. It wan found in practice that neither fowla nor pigeona would touch the paste, either in ita aoft state or when hardened by the sun, so that its employment is probsbly froe from danger to the oueupants of the poultry yard. Some rabbita on the other hand, that got acoess to the paste, ate heartily of it, and paid the penalty with their lives.

FABm Lirs.-It is a common complaint that the farm and farm life are not approciated by our people. We long for the more elegant purauits, or the ways and fashions of the town. But the farmer has the most sane and natural occupation, and ought to find life aweeter, if losa fighly seasonod, than any other. Healone, atrietly speaking, has a home. How oan a man take root and thrive without land! He writus his history upon his field. How many ties, how many resources he has; his friendahip with his oattle, his team, his dog, his trees, the satisfaction of his growing erops, in his improved fields; his intimay with nature, with bird and beast, and with the quickening elomental foroes; his cooperations with the oloud, the sun, the somsons, hoat, wind, rain, frost. Nothing will take the various sooial distempers which the city and artificial life breed out of a man like farming, like direot and loving contact with the noil. It draws out the poison. It humbles him, teaches him patience and reverence, and restorea the proper tone to his aystem. Oling to the fartn, make much of it, put goursalf into it, bestow your hoart and your brain upon it, so that it shall asvor of you and raliate your virtne after your day's work is donel-John Burroughe, in Scribner.

Discouragemests, - In the battle of Lake Erie Commodore Perry atood upon the quarterdeck of the flag ship looking down upon the men who manned the great gun. A broadside from the enemy ewrept them away. The reserve corpe seeing their companions mangled and dying, and thinking of homes and wivesand children, turned pale and hesitated. Their beloved Commolore looked at them silently. Gaxing into hin face, without a word they stopped to their places and worked the gun. The ahip sank. Out of one handred souls on board only twenty eseaped. Yot the battle was won. Satan means that dis. oonragaments should keep us from our work. The Lord means them to arouse all our love and truat and oourage. Look at the dincouragement and you will alirink, falter, fail. Fix your eyes atesdfactly upon the Lord Jasus as he ailently watehes you, and you will go forward. Even should the ahip sink, your ruin appoar to be oomplete, yet the Lord's battle shall be won, and yon ahall be crowned. "In that glorious war, they conquer though they die."-Ren. E.O. Ray,

Mons than 8,000 160 -acre farms were taken up this year along the Northern Pacitic railway.

Lines-Jvices Btacurss.-It is not very satiafactory to tell about a thing without giving direo. tions for doing it, but this is all we can do with "lime-juice" biscuit. We give the following facta an vouched for by an English exchango, in case some of our akillful domentic chemista may find out for themselves the method of manufacture which is held a seoret by the lime-juiee biscuit matrore in England. The vaiue of ume juice as a medicinal agent and also as an articlefof daily diet being now so fully recognized, it becomen a matter of importance that it should be obtainable in a convenient form, agreeable to the tante, and alno nafe for transport. This object has been acoomplished in a astinfactory mauner by the production of lime-jaice fruit bisouita, which are manufactured under a patented proceen recently discovered for the preservation of the juiees of fruita in their fresh rtate; they contain the equivalent of $40 \%$ of freah lime juice, condenned in volume, but unchanged in other reapecta as to ita natural condition. The condensation of the juiee is effected by the elimination of the greater part of ita conatitutional water, it a temperature of about $100^{\circ}$ Fahr, by means of acientifle preparation the lime juiee of the biscuit proserven ita orig. inal anti-scorbutic offleiency in even concentrated degree. Moreover, its associate compounde oo-operate in this protecting influenee, at the same time that they give an alimentary character to the produch The lime-fruit juiee biseuit, therofore, is not only a apecifie againat scurvy and a purifier of the blood, bat a highly nutr tious food for general use as a part of the daily diet. For summer use they will be founl very grateful either dry or dipped in water and then onten, alleviating the thirat, while at the name time sorving as an agreeable nourishmont.
Vintilation or Cuphoahdi,-The ventila tion of cupboards is one of those minor matters that are frequently overlooked in the oreetion of houses, while the want of a thorough draft is apt to make itself unpleasantly apparent to the amoll. The remedy of the delect is however, very simple; if possible, have perforations made through the back wall of the closet, and a faw in the door; when the wall of the clonet oannot bo porforated, bore holes froely on the top and bottom. To provent dampaese, with the necom. panying unploasantuess and injurious effects of mildew in cupboards, a tray of quioklime should bekept, and changed from time to time as the lime becomes alsoked. This remedy will also be found uneful in asfen or muniment rooms, the dampair of which is often deatruetive to valu. able doeds and other contents.
A Gift to Botanists.-The inheritor of the Villa Museet, near Cannes, has presented the building, together with the maguificent herharium and library attached to it, sad all the soientiffe instruments and applisaces, to the French government, to be maintained an a place of atudy for botanista of all nations, free of coet. Ponons desirous of studying thers, whose appliantions are favorably entertained by the manage: ment, will be provided with free board and lodg. ing in the inatitution for aix weeks, and every opportunity afforded them to pronecute botanionl research. In the case of appliosata not provided with academical eredentials, an introduetion or letterjof recomme adation fromsome recog nised ayunt will be required.
Ma. Lascols'showerry. - The following atory is told to show the rigid honesty of President Linooln in early life. When he was postmashr in a amall Illinois village word came that the postoffice agent would be along in a day or two to collect the money due to the Government, It was about '875, and one of Dincoln's friends, alarmed lest the young pontmater ahould be ombarraseed by the sudden demand for so much money, offered to lend him the num. Mr. Liacoln declined the proffered kindnees, and, going to the upper shelf of a sluept, brought down a bag containing the amount in the very ooins
which had come into his hands. Ho said he which had come into his hands. Ho said he money which win in his possession bolouging to money which
other people.

Tur Metaluc Slerpata Prohlig.-Many railroads, the Central Pacifio among them, has tried experimenta to tent the efficacy of fron sleepers in the hope to cut off the expense of perishable timber. The ame problem is being worked at in Europe. It is atated that M. do Soignio, a Belgian engineer, and formerly a forge master, has patented a nystem of mil atid iongitudinal slooper in steel, rolled all in one piece, and that the John Coekerill Company are now rolling an experimental couple-ol.thounand pieces, to be laid near Ghent, botween Quatrecht and Melle. The compound rail and sleoper is 12 moters long by 300 millimeters broad, and weigh 51 kilometers tho meter ras. If adopted, the Belgian iron and ateel traden would benefit to the extent of 102 kilometere of ateel, and 18 kilometers of irou for every meter of way laid with the new combination, and this, of eoures, is reason onough why if should be warmly recommended to the attention of the Belgian Minister of Publie Works. All the advantagea of the Hilf and De Serres and Battig sleoper, both of which are noz being experimented with by the 8tate, are combined and augmented in M. de Soignio's invention.

Errmer of Conmtant Vibiation Upon Inom. -Shafta of side-wheel stesmars and propellere somatimes break suddenly, and if is aspposed that the constant vibration of certain qualities of apparently sound iron causes a aryutalisation and loss of coheaion. Lately the sleamer City of Checter was proceding ai an ordinary rate of speed in cloar, oaln weather, when, whoat a word of warning, two blades of har wheel dropped off simultaneously, erippling hor at onoe. The manufacturess and buidfers believe that an oxamination of the remainder of the propeller will probably show agnin that the conefant vibration had cryatallized the metal, no that the wheel went to pieoen all at onoe, like the deneon's "onsihorse shay." The Brooklys Ehale auggente that this grolual eryotallization of iros is one of the dangen which threaten the elevnted roads. How long the trentle work will retain its streagth of liber under the cemseless vibration it is oslled upon to endure, it is a quention which ouly costly experianoe will determine.

The Nerd of Cohatiot Statim Bunvath We read that Prof, J. Peter Lealey, at present State Geologint of Pennaylvanin, and for some years engaged in condueting the elaborate goological aurvey of thst 8 tate, breakn out into loud lamentations over the utterly inadequate delinations of the topography of the Btale on which he has to fit his geologioal sharts. "They neither fit on to each other nor corroapond to any common standard mas," he says. County lines, he ays, are somatimes half a mile away from their true places. The joint commiseion of the States of New York and Penamivania to entablish the line between thoes Rtates, has found the old nooepted line wrong at overy point so far as it has aurveyed. The Const Sarvey is now suthorized to extend ite syatem of trangulation over any State whioh provides for a cientific sarvey, and there never whe a time when it was easier to got large eorpe of expert aurveyors.

Acozlehation of Nehvoua Vhloctry hy the WiLi-A tranalation in the dournal of the Pranklin Inailiste saye that Chauvean has fately undertaken two diatinet seto of experimenta In the first, he compared the velocity of transmisaion in the nerves of the larybyoal muselen (red voluntary museles), and is thooe of the servieal yoeition of the cesophagus (med favol. untary museleo). In the seoomi, the compar. ison was extended to the nerves of the terminal portion of the arophagus (pale involuatery muselea). Hefinds that in the moter nerves of the red involuntary museles, the veloeity $\theta$ tranamisalon of centrifugal oxeitement ia abr eight times less than in the norves of mnWhich have an Manticel structers, but belong to the portion of the muscular that is controlled by the will.

