THE MERRY SIDE OF LIFE. FREELAND TRIBUNE.

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Six Months... Four Months Two Months.

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It is about thirty miles across town in London, and for that entire dis-tance there is said to be an unbroken line of residences and stores.

The Baltimore American muses: If it were not for the savages in Africa the glorious art of war would have few human beings for target-practice in these modern days. The poor Afri cans are not able to do much except to get shot and die.

It is said that so much farm land in

England has lately been allowed to lapse from cultivation that wild anials, which ten years ago were in danger of extinction, are now flourishing and increasing. The badger and the otter, for instance, are reported to be thriving greatly on agricultural lepression.

Henry L. Higginson, who generously gave Soldier's Field to Harvard College for athletic sports, has written a letter to the captain of the college baseball team that other ball players might read with profit. He says: "Good manners and a sense of justice call for a change or two in the ways of Harvard students at the games. Cheer-ing a bad play of an opponent is unkind. Cheering to worry an opponent is shabby. Cheering in our home for our men only is at least ungraceful and very selfish."

In the Foram is an interesting article telling how Baltimore satisfactorily disposed of the tramp nuisance. established a comfortable lodging house, to which male lodgers were admitted on the condition that they paid for the accommodation in work. The police stations were then closed against the tramps, and they were all referred to the lodging house. The result was that many poor and worthy men were satisfactorily assisted, while the useless, idle beggars, horrified at the thought of having to work for anything, have drifted away to find con munities that will give them something for nothing.

Undismayed by their experience in the Suez and Panama enterprises, the French are undertaking to build another great canal. They have now de-termined to connect the Bay of Biscay with the Mediterranean by a canal over 400 miles long, from 144 to 215 feet wide and from twenty-eight to thirty-four feet deep, and with widened passing places every eight miles. There will be twenty-two locks, each 650 feet in length and eighty feet in width. The cost is calculated at \$100,000,000 It is, however, safe to say that it will be much more. It is claimed by its promoters that besides greatly expeliting commerce, this waterway will be of vast political significance. If it could only be kept open in war, Gibraltar, the strongest fort in the world. would be rendered useless, and France, instead of England, would hold the "Key to the Mediterranean."

Paul Bourget, the wonderful Parisian author of "Cosmopolis" and other romances, speaks of America as the greatest example of audacious modern-ism, the creation of democracy and science, which are the grand, mystari. ous, gloomy disturbers of the old world. Over against its vast, black, unesthetic, almost rude concentration of superlative power called Chicago, unesthetic, almost rude concentration of superlative power called Chicago, this terrible democracy exected in a moment of play, a white city as beau tiful as a poet's dream, whose vanish-ing palaces were not merely colossal, but also in a grand way simple, in genious, gracoful and symmetricat. The prosaic spirit of the age has built its rude western cities, and now turns to manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world that it is the manifest to the world that it is commetent, nay, eager, to conceive and the manifest to the world the world the manifest to the world the world the world the world the world the wor A YOUNG IDEA SHOOTS. "Gold is a precious metal," ex-"Gold is a precious metal," ex-"Iming Senators With a Sand Glass. A very miniature edition of the fa-miliar hour glass was upon the desk for the first time in saveral years. The Senate was proceeding under the five-minute rule, and when the sand had empired itself from one bulb to the son for the ages, by American artists, designers and executive leaders, from our own ranks.

STORIES THAT ARE TOLD BY THE FUNNY MEN OF THE PRESS. Hanny Thought_Rollavad_A Canin Conversation – His Business Common Error of Speech, Etc. While deepening shade and cooler air, The advent of the night are marking, Blithe Corydon and Phylils fair, Beside the garden gate are sparking. Their love has reached its rosy May, The youth believes the earth an Aiden, As with his hand he sweeps away The insects that annoy the maiden.

And as, with many a vow and oath, The blushing nymph he bends the knee to, If e joys to think the blood of both Are mingling in the same mosquito. —New York Press.

A CANINE CONVERSATION.

"What ails you, Tige?" "If there's anything I despise it's a mp mean enough to wear trousers r a wooden leg."—Life.

AN UNKIND HUSBAND.

Mrs. Jenks-"Do you know, I al-ays look best in calicos." Mrs. Thorpe-"Who told you so?" Mrs. Jenks--"My husband."-Life.

RELIEVED. Frightened Maiden (despairingly)-

"All is over!" "Fathful Skipper of the Yacht-"Well, you'll feel better now, my dear." -Truth.

HIS BUSINESS.

"There ground." "Who is he?" "A lightning rod agent."-Detroit

Free Press.

A COMMON ERROR OF SPEECH. A consist kinds of specch. Shc - "Tve been enjoying very poorhealth lately."He - "Ah! Your faculty for enjoy-ment must be very well developed."—Washington Star.

AN OPINION

Parker-"What is your opinion of Farker—"Well, Jim could tell a sea arker—"Well, Jim could tell a sea arpent story without seriously affect-ng his reputation."—Puck. serpenting his

PLEASE SEND SAMPLES.

PLEASE SEND SAMPLES, Erown-"That bullet-proof cloth they have invented in Germany must be a great thing." Mrs. Brown-"I wonder if it could n't be used for little boys' trousers?"

-Puck.

QUITE UNNECESSARY. rayn--"In these family spats it es two to make a quarrel, I sup-Breezly-"Yes; but it isn't at all

necessary for one of 'em to say any-thing."-Truth.

VERY DESIRABLE.

Ada-"How does this sound to put in the paper? 'A lady wants to sell her favorite horse to kindly gentle-man, young, sound, and not afraid!" Kitty-"Why, that's exactly the kind of a man I'd like to marry."-Puck.

WOULD REFLECT ON HER JUDGMENT "Pshaw! Ned seems to think it is nis duty to propose to every girl he

meets." "Well, that's no sin." "No; but think how I should feel if any of them rejected him."—Judge.

IF HE CAN. Teacher-"What is the meaning of

Teacher—"What is the meaning of the word excavate?" Scholar—"To hollow out." Teacher—"Give me a sentence in which the word is properly used." Scholar—"The small boy excavates when his papa licks him."—Truth.

THE IMPRESSION HE MADE.

THE INFERSION HE MADE. The Idiot--"If don't seem to have made a deep impression on you, Miss Smilers." Indeed, you have." The Idiot--"Therefore, Imay hope." Miss Smilers--"Therefore, you need not hope at all."--Chicago Record.

SHE DIDN'T SCARE.

SHE DDN'T SCARE. Marshall—"What the mischief is the matter with you, Raymond; been held up by some highwayman or have you been in a railway disaster?" Raymond—"Well, I can't say I've done either. Last night I just hid un-der the bed to scare my wife."—Life.

USUALLY THE WAY. "Don't you find the future rather discouraging?" asked the visitor of a pert looking youngster. "No," came the quick reply. "I never had a more promising outlook." "What line are you in?" "The a bill collector."—Atlanta Constitution.

REING AGREEARLE "Harry," said the hostess to her on, "why don't you make yourself greeable to that gentleman in the

ceiling of the room high enough."-Chicago Tribune.

"Who-the inventor?" "Who-the invariant of the despendent "Yes." "I tried," was the despendent answer, "but he won't talk of any-thing except his air-ship." "Can't you say something about that-something nice and encourag-ing?"

ng?" "I did." "What was it?" "I told him that judging from his description there were no flies on it." -Judge.

HE KNEW.

The teacher in geography was put-ing the class through a few simple ests. "On which side of the earth is orth pole?" she inquired. "On the north side," came the

nanimous answer. "On which side is the south pole?" "On the south side." "Now, on which side are the most eople?"

people?" This was a poser and nobody an-swered Finally a very young scholar held up his hand. "'I know," he said, hesitatingly, as if the excess of his knowledge was too much for him.

the excess of the hardways and the teacher, "Good for you," said the teacher, encouragingly, "tell the class on which side the most people are." "On the outside," piped the young-ster, and whatever answer the teacher had in her mind was lost in the shuffle, --Detroit Free Press.

HE WAS ON THE WAY. The young fellow was extremely diffident, and very much in love with

the girl. He had made half a dozen attempts to offer her his heart and hand, but on each occasion he had fallen short. To add to the seriousness of the sit-uation, the girl was realy to accept him as soon as the proposal was in definite shape.

him as soon as the proposal was in definite shape. Even the mother was willing, but latterly she had grown tired of the dilatory tactics and Fabian policy of the suitor, and had kicked on his coming so often and staying so late. One night, after three hours of struggle on his part, and much delicate encouragement on the part of the girl, he had seized her hand convulsively, and was about one-fifth through an impassioned appeal to her to be his'n, when the mother's voice sounded clear on the night from the head of the stairs.

stairs. The youth stopped short, but held n. "Mary," came the maternal voice uerulously, "is that young man there

equerilously, "is that young much there yet?" "Not yet, mother," replied Mary smiling sweetly down on the face of her Romeo, "but he's getting there." And two weeks later the cards were out.—Detroit Free Press.

TALE OF THE POLITE MERCHANT.

The hardware merchant (to custo-er just entering)-"Good morning,

sir." Customer—"I want one of those things that you fasten on a door so as to make it shut itself." H. M.--"Oh, yes; an automatic door clear.

door closer." C.- "That's it; and it must not be high priced." H. M.—"Yes, sir ; a cheap automatic

door closer." C.--"And not too complicated, either." H. M.--"I understand. You want

an automatic door closer of similarity design and small cost." C.—"Exactly. But not one those infernal things that slam to door to with a bang."

After securing a victim he som

C.-"Exactly. But not one of those informal things that slam the door to with a bang." H. M.-"That would be a nuisance, of course. What you want is an auto-matic door closer of simple design, small cost and with an easy spring." C.-"That's right. But I dont want it to close the door too slowly, either." H. M.-"'In other worde, you re-quire something faster than cold molasses. Briefly, what you are look-ing for is an automatic door closer of simple design and small cost that is neither too slow nor too fast." C.-"That's all right. And, be-sides, it mustn't bo like some I have seen, where a man needs the strength of an or to open the door." H. M.-"Very well. Now, let's un-derstand each other. You want to buy an automatic door closer, simple, cheap, neither too slow mor too fast and easily operated." H. M.-"I'm very sorry, sir, but I do not deal in automatic door closers." - Truth. Do Not Approve of Bieveles.

Do Not Approve of Bicycles.

ELEPHANTS ON A "TEAR." GREAT BEASTS OFTEN SEIZED BY A PECULIAR MADNESS.

injured, and a woman was flung to the street from a stoop. Emperor's tan-trums resulted in the destruction of property worth \$4000. There have been many keyere zilled among circus elephants. Chief, owned by Robinson, killed its keeper at Charlotte, N. C., by hurling him against the wall of a special car, in the sight of many persons. Romeo, one of Forepaugh's herd, when it died in Chicago, in 1872, had killed three keepers and destroyed \$50,000 worth of property. Barnum's Albert killed its keeper at Keene, N. H. Sentence of death was passed by a drum-head court-martial, and the beast was marched, shaekled, to the woods. Its trainer marked on its hide the com-pany of riflemen fired, and the suimal paid the penalty of its viciousness. 10 Condition is Known as "Must" —Enraged Elephants Running Amuck—Emperor Causes a Panic. The In the East Indies, where tame ele-phanta are classed as intelligent machines and are invaluable ad-juncts to civil engineering and transportation, a "rogue" elephant is as much dreaded as an outbreak of cholera, a tornado, or a man-eating tiger. Its very sagacity makes it all tiger. Its very sagacity makes it all the more dangerous, and once started on a career of destruction and life-taking its methods appear cynical in their pertinacity and ingenuity. Of such "rogues" there are the wild beast excluded from communion with its follows and the domesticated animal such "rogits" there are the wild beast excluded from communion with its follows and the domesticated animal in the condition of "must." The lat-ter is more dangerous than the other because its spell of blind fury gener-ally begins in densely populated neigh-beabeets.

A correspondent who has seen a great deal of forest life in India writes on the subject of how tigers secure their prey, says the Pittsburg Dis patch. As a general rule he is in clined to doubt the truth of the comborhoods. East Indian official statistics, how-ever, prove that, as a rule, where one person is killed by an eleghant nearly forty are destroyed by tigers, leopards, bears, wolves and hyenas. Excep-tionsalter these data. In one instance a tame elephant which had been docile for years became demoniacal and tore away trumpeting to the woods. Be-fore it was killed it had ravaged a com-munity and killed thirty-five persons. In India the condition known as 'must,'' which is synonymous with madness, is heralded by an exudation on the forchead of the bull elephant and swelling of the temples. Such an animal in castivity is shackled, and cantion is observed in approaching it. Occasionally elephants with chronic bad tempers are found, but they should not be classed with those who are periodically dangerous, like Tip, or the wild outcasts which are also known as ''solitaries.'' A typical ''regue'' ran amuck near Jubbalpore in 1875, and is spoken of as a man eater, be-canse in killing some of its victins it took them in its mouth and tore them to pieces. Many of the ''rogue'' elephant rhoods. East Indian official statistics, howclined to doubt the truth of the com-monly accepted theory that the tiger, after lurking in ambush, springs on to the unsuspecting victim, and, tearing savagely at his throat, engerly drinks his blood. This method of attack may sometimes be adopted, but it is far more often the exception than the rule

sometimes be adopted, but it is nar more often the exception than the rule. In approaching his prey the tiger makes the best possible use of cover, but when further concealment is im-possible he will course a deer or other swift-footed animal with extraordin-ary speed. A sudden dash of 200 yards in the open is nothing uncom-mon, and the writer mentions the case of one tigress, with whom he says he was at one time intimately acquaint-ed, who used to catch hog or deer al-most daily on a perfectly open and burned up plain. Small animals arc, for the most part, dispatched with a blow of the paw; but in the case of the more bulky, the experienced tiger, leaping on the back of his victim, grips the neek in front of the withers with his jaws, one forepaw clasping the shoulder of the animal and the other fully extended under the throat. Should he be unable to crush the spine with his jaws, he will then jerk the head back violently and thereby break the neck. "I have examined," says this corre-

Tigers and Their Prey.

rightly conclude that scratching is a natural function of the domestic hen. The hen, however, performs greater work than the birds on the wing. Birds seldom lay more than two or three eggs before beginning incuba-tion, but the hen may lay from fifteen to fifty, or even more. She must pro-duce these eggs, as well as maintain herself. In the natural state she hays fewer eggs, but has greater difficulty in procuring food and resisting ene-mies. An egg is a composite substance and cannot be produced from a sin-gle article of food. The hen requires a variety of food in order to fulfil her duties as a regular and persistent layer.

a variety of food in order to fulfil her duties as a regular and persistent layer. It is not, therefore, conducive to egg production when the hen is deprived of her natural advantage of scratch-ing. She does best when she is com-pelled to scatch and work for her food, and she will always select the kind most suitable for her purpose. When hens are confined in enclosures they may be fed too much while in a con-dition of idleness. A hopper that is kept full of food where the hen can always reach it induces her to desist the necessity for so doing then ceases and she becomes too fat. Nature teaches, therefore, that hens should be so fed as to compel them to scratch and work for their food, which keeps them in health and leads to greater egg production.-Mirror and Farmer.

SUMMER CARE OF THE CALLA.

Bowner case for the calla during the summer, in the most satisfactory way, seems to be a question on which many growers of it differ, writes Ehen E. Rexford, in the American Agricultur-ist. Some keep it growing all through the year, and because it does compara-tively well with this treatment, they argue that the proper way is to keep it growing. I do not selieve any plant ought to be kept growing actively all the time. There should be a period of rest. My plan is to put the pots containing the plane so to doors in June, turn them on their sides under a tree, or in some partially sheltered place, and there I leave them until Soptember, without any attention whatever. After a short time, the foliage turns yellow, and very soon it drops off, because the soil in the pot is becoming dry. In two weeks after putting the pot out, you would not suspect there was a live root in the soil it contains. But the live root is there, all prepared. Of course the soil absorbs more or less moisture from the air, but not enough, in an ordinary season, to keep it from getting as dry as dust. One would naturally think the root would wither away, but it does not. Although the soil abour it seems robbed of all moisture, the root holds enough to retain plungness. In September I prepare a fresh compost of mucky earth, some sharp sand, and a little loam. If the roots are strong, good-sized ones, I use an eight-inch pot to plant them. Keep the soil most, water, but do not keep the soil most, water, but do not keep the soil most, we wore them strong growth has begun. If there are two or three inches under the soil, while year and heavy, and this induces disease; and an unhealthy calla seldom gives inder the soil, when well, but growing, it does not take kindly to stagnant water about them. Keep the soil most, or wet, by frequent applications of water, ther do not keep the soil wore more to inches numer the soil, water well, and in a short time young leaves will appear. Then give more water, but do not keep the soil wort more good, strong

FARM AND GARDEN NOTIES Blood will tell in dairy cattle. The dairyman with a good well and a windmill can feel about as inde-pendent as the one who has running water on his farm.

water on his farm. In oiling the harnoss if cod-liver oil be used in the place of neats-foot oil, it is said that the leather will remain unmolested by rats or mice. When you strip a cow's teats to the last drop in milking, do it not so much for the initiate are so

mostly of sectors into the marker puts that the sector of the immediate gain as to birds that build in trees and feed their young would be unable to supply them if only seeds could be provided. As the concentrated foods must be given, the variety is also to be considered. Suck substances as grass and the aboots of tender herbage are intended as much for dilution of the concentra-ted foods as for the nutrition to be obtained therefrom. The work of feed-ing her young is not incumbent on the hen by bringing the food to them, but she is intended to lead them, guide them and scratch for them. The feet of the hen perform the same duties as feet are well adapted for providing food for her young. Hence we may

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A RUST-RESISTING VARIETY A new rest-resisting variety of wheat is reported by the South Australian Register. It was observed by a farmer, soveral years ago, while reaping a badly rusted field of wheat,

unaffected.

ted. He picked and carefully

unnicette. I picket and catominy saved them, sowing the grain the next year. It yielded well and showed no sign of rust. From that beginning the stock has increased until twenty acres were raised last year, the crop of which was taken at a good price. —American Agriculturist.

FATTENING EWES.

Ewes may be fattened for early mar-ket at the same time they are rearing the lambs, and the lambs will be im-proved at the same time. Ground oats, buckwheat and corn, mixed in cound near will make an availant

proved at the same time. Order, mixed in equal parts, will make an excellent feed for the sheep, and two quarts a day may be given. To prevent the sheep from gorging themselves and running their heads along the feed troughs to gather big mouthfuls, and so choke themselves and spoil the good of the food (and they are very apt to do this), give the feed in flat troughs, with divisions made at every foot, placing the meal equally in each division. The troughs should be kept in a sogarate part of the yard rol to, so that the feed may be distributed without crowding.—New York Times.

ABOUT DRIVING HORSES

his stomach with a large quantity of water. So far as is possible the rule should be to give water frequently, and while he should have all that he

will drink, it should be given in small

doses. The good driver can tell by the way his horse goes the amount of work he should have.—Indiana Farmer.

GROWING WHEAT MOST CHEAPLY.

A correspondent of the Michigan Farmer, H. Voorhees, of Grand Traverse County, writes that he makes more money by extending his acreage as much as possible, and working the land with least labor, instead of by concentrating his effort on a few acres. He claims that he can put in wheat for fifty cents an acre. sowirg

LET THE HENS SCRATCH. The natural food of fowls consists mostly of seeds, insects and grass. It is not a natural condition when the

ABOUT DRIVING HORSES. The driver who thinks that because his horse is fresh he can stand it to be driven fast at the start for several miles, and then given a chance to rest by going slow, or who drives fast for a while and then slows down to a walk in order to rest up for another spurt, will not get the best speed out of a horse with the least waste of vitality, especially in going long distances. It is a steady gait that counts most and wears the horse least. Give him a chance to get warmed up first and then let the gait be a steady one. Another item is not to feed too heavily before driving. A light feed of oats will be far better than a heavier feed of a more bulky grain. Exercise or action too soon after eating retards travel at a good gait with a loaded stomach cannot but show the effects, and if driven rapidly for even a short took them in its mouth and tore them took them in its mouth and tore them to pieces. Many of the "rogue" elephant stories from Asia are based on the doings of either ostracised beasts or those who escaped from captivity, who in haunting agricultural neigh-borhoods to feed on crops devastated plantations and killed people who came in their way. One which wan-dered in the Doon district for fifteen years, and destroyed rice fields and killed many persons, was the prop-erty of the Government, and never rid itself of a chain which it earried away when it escaped. Its presence near the village was known by the clank of the borken fetters. All such marauding brutes are simply preda-tory and vicious, sleeping in the jun-gle during the day and traveling at night. They are not "rogues" proper, or elephants suffering from periodical fury. With his jack violently and thereby break the neck. "I have examined," says this corre-spondent, "hundreds of animals killed by tigers, and have never yet detected injury to the blood vessels of the throat, but invariably marks attribu-table to the above mentioned method." In removing his proy the tiger fre-quently displays almost phenomenal strength and activity. In one case oited, a young tigross leaped up a per-pendicalar rock, some six feet high, with a man weighing nearly cleven stone in her jaws, and on another oc-casion a male tiger dragged an excep-tionally large buffalo up a bank at least ten feet high. stomach cannot but show the effects, and if driven rapidly for even a short distance after enting a hearty meal there is considerable risk of the colic. Watering properly is fully as im-portant as feeding. When a horse is being driven on the road he should not at any time be allowed to overload his stomach with a large quantity of

Advance in Science.

or elephants suffering from periodical fury. Crucity sometimes makes "rogues" of elephants. In 1895, while an ele-phant was being ridden by its keeper in the district of Sultanpore, in Oude, the animal resented prodding with a spear by pulling the man from his back and throwing him some distance away. Fortunately the man foll in a hollow and remained there undiscov-ered by the elephant, who went to a neighboring village. There he chased an old man into a house, then broke down the walls, pulled the man out, and dashed him to pieces. The same night the elephant knocked down several houses in quest of human beings in the villages of Sardapur, Baragon and Jaisingpur. He killed six men in Bersoma, three in Sora, four in Ganges, and four in Mardau. He likewise killed a bullock and a pony, and also completely de-stroyed a new carriage. The animal used to stand at the door of a house, force his entry by demolishing the walls on either side, and would then kill as many of the inmates as he could, pursuing those who tried to run away. He mangled his corpese terribly. The phenomena of light and color The phenomena of light and color have proved a very attractive study to physigists, whose investigations have in recent years revealed much that was formerly obscurs, says the Newcastle (England) Chronicle. After many (England) Chronicle. After many years of persistent application and in-vestigation, Mr. Lovibond has suc-ceeded in establishing several new points with regard to light and color, mong other results being the produc-ion of certain standards of color, tion which may not only be employed in scientific research, but in arts and manufactures where there exists a necessity for a nice discrimination of tones. With the aid of the tinto-meter, an instrument Mr. Lovibond has invented, the smallest increment

and with least labor, instead of by concentrating his effort on a few acrea. He claims that he can put in what for fifty cents an acre, sowing it among growing corn, harvest it for \$1.25 an acre, threshing \$1, market-ing fifty cents, making, with \$2 for interest and taxes, a total cost of \$5.25 per acre of wheat. His crop of twelve bushels per acre was sold for sirty cents a bushel, from which deducting expenses leaves him a profit of about \$2 per acre, or, to be exact, \$1.95. We think there are some mistakes about the low cost of growing wheat. He has allowed nothing for cost of seed, and fifty cents an acre will not pay the cost of cultivating it in among the grown corn. The mest serious mistake is in allowing nothing for depreciation of the soil. There comes an end to growing wheat or other grain unless the ground is fertilized, though the method of skinning the farm yields apparent profits for a time. The more practical way to grow wheat at a profit is that given by Frederick P. Root, of Western New York, who grew a crop of nearly forty bushels per acre, an made something from it despite low prices. Mr. Root keeps up his farm and can grow such crops so long as he lives. Mr. Voor-hees must come to a time whenhe a wheat per acre.—Boston Cultivator. meter, an instrument Mr. Lovibond has invented, the smallest increment of light or color is distinguished, while it is also possible to measure the color of solid and liquid substances. This is achieved by the adoption of graded colored glass for staudards, and with an apparatus cutting off side lights and giving a directiview without the aid of lenses, prisms or reflectors. Mr. Lovibond has limited his inves-tigation to that part of the spectrum which is appreciable by the eye as light and color; but his research seems to lead him to differ from the Young-Helmholtz theory of primary colors, as he would substitute orange for red. For this view many reasons are advanced; but they do not appear to be very conclusive, and most peo-ple will prefer to speak of the three primary colors as red, green and vio-let, notwithstanding Mr. Lovibond's measurements. <text>