# 704 <br> Trange = Vishor <br> the farmer is of more consequence than the farm, and should be first improved. 

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A. C. GLIDDEN, Editor,

## From Aurora Leigh <br> Imperfect, ill-adopted, fails so much. It is not gathered as a grain of sand <br> To enlarge the sum on tuman action used For carying out God'send. No creature worh So ill observe, that therefor he's cashiered. The bowest <br> At once beloow the diedikrity of man, <br>  <br> To do the thing we an, and To fret becanse it if litile.


Springbrook Farm, ?
Pomona Grange Hall, At Pomona Grange Hall, in benefits of a liberal or college benefits of a liberal or college
education were lauded by many speakers. There was a consen sus of opinion that that was the one thing needful for the farmer boys. It appeared further that
many of our sons and daughters had attained or were striving for such an education. It appeared, morecver, that our farmers were being robbed of their best and
brightest jewels. The towns and cities, offering greater induce young men and women, received them, to be absorbed in the gen eral mass.
It comes out, also, that our
cities, those "sore spots on cities, those "sore spots on the
body politic," were dependent upon our young and vigorous un
tainted blood from the country for the elementary principles life. So great is degeneracy in that without the pure streams flowing in from the country in
three generations the bloate become imbecile, or worse. A verging on the truth
The more effusive speakers in the Grange referred to, with gen erous emotion, exclaimed: our sons and daughters receive
the higher education; let them go to the cities if they want to let them enjoy to the full bent o their inclination and ambition
the glories of the outer world. Let them go, and God bless them, though we old folks be lef to strugg,
sifice wabnegation, such sac rifice, would be sublime were it
really necessary or well consid ered.
restrain the ge wenerous and would restrain the generous and noble
aspirations of youth. We are free men, according to the Gospel Grace and of the Republic in which we dwell. We being free, our children are also free,-free
to work out their own salvation in the world's theatre. If a son sional man, a scientist or a eral business man, we would act the part of tyrants if we positively forbade such choice or development. It would be foolish to
keep him chained to the farm, like an old-time Saxon serf, if in deed we could command the pow would, under restraint, make


#### Abstract

poor stick" of a farmer, anywa


 likely, a failure event and, mo time we would be offering himpremium to depart from us an go to Daknta. But when we say "let the boy
go," have we well considered own arguments? You remember what was said
about cities, just now about cities, just now,-how ur-
ban people, left to themselves,
would soon become would soon become effete, losing
their original vigor, and degenerating into puny men. In full
view of these as bad as heathens when we wish as bad as heathens when we wish
our children to pass this fire of
Moloch? We Moloch? We educate them, suf-
fer them to take up a residence in cities, and then, in that seeth-
ing cauldron, we may, in the their pure minds and healthy may lose their name on earth and most likely in Heaven too We are cruel even to anticipate such a fate for our children. ucational advantages of our ed ucational advantages, and right
ly. We advocate the very best training for our children. W want them to shine in the world
as bright men and women. desire that they may drink deep from the well-spring of knowl
edge. We want them to be wis edge. We want the
But if education is
our brightest and best: if the of fect of a liberal education is to deplete the country of its bes blood, drain it of its hope and
stay, leaving only the culls and stay, leaving only the culls and
runts on the farm. are we really acting wisely in favoring and fosseems to me such conduct is sui cidal. It seems to me if such consequences are inevitable-a
legitimate outcome of a liberal education - the sooner we dis agricultural colleges, and stop talking about this education, the
better for the farmer, his chilren, and farm pursuits
But it ought not to follow that ed a liberal education heceiv necessarily turn his back upon necessarily turn his back upon
the farm with disdain. All our Grange teaching is to the effect that farmers, of all men, need and should have the best education attainable. We are teaching that, among all the fields of hu opportunities for the truest cul ture and the best work. Now, do we err?
trow not.
Run through the whole curric alum of our agricultural college and you will not find a study or
science that is not of benefit to science that is not of benefit to
the student and beneficial when applied on the farm. Not one When the Botanical building, under the charge of the accomplished Professor Beal, was unfor tunately destroyed by fire, and an appropriation was asked for
to rebuild, a learned legislator opposed the measure because he opposed the measure because he
could see no use in botany. He claim to be a farmer. I do not believe he was a Patron of Husbandry, and yet could see no use botany on the farm
He has yet to learn that "al live on grass, unless they be live on grass, unless they be
asses, and prefer thistles. Wheat. oats, rye, corn, clover, timothy and a long list of kindred plants, are grasses. Without grass our fair Michigan would become a desert and its people extinct.
Now, it is the province of botany Now, it is the province of botany ous grasses, as well as trees
shrubs and flowers, a
merable beautifu things embraced in the useful ble kingdom.
Brother Beal, with his compound microscope, can show you, islator, more of the wonders of nature in half an ho $r$ than was er dreamed of in your misera But to return
I was after was hardly worth the powder.
It is a so
It is a source of grief and mormitted fact that our farms are not good enough for our liberally educated sons. If f:rming pur-
suits are unattractiv $\rightarrow$, affording no room for thought o: the appl cation of scientific principles; if labor in the fields is considered
menial; if that labo is not re warded by affluence; no sudden fortune made, no farre er million aires created, how arr the condi-
tions to be improved oy absolute desertion? I do not see. The show and glitter of ihe outside
world are fallacious. In this land, world are fallacious. In this land,
notorious for its few rich men, there are not so veryt many mil lionaires, when we come to win
now out the 65,000 . 00 of our people. But there re many. poor, while a fair protortion liv in moderate circums 't ces only The hope of the renw, is hased neither riches nor poverty; who are intelligent, sound-minded and God-fearing. The American
farmer has his place among this farme
class.
Now, why cannot the college a decided genius for something else,-a genius or bent so pre ponderating as become a call. his books. return to the old home stead, or the new which he ought self, and go to work in agricul tural fields? Why should he not resolve to devote his life and knowledge to improving agricul ture and to the uplifting of his brother farmers and rural society? Why not undertake to earn plow? It seems to me there is room on the farm for the gratifi cation of the noblest ambition. Honor, fame, and even wealth, will come to the deserving who The so called de
The so-called depression in the during the past few years is, believe, only temporary. With the changing years will come prosperity. We see a strong light a hittle way ahead. As the coun-
try grows older, and the population increases, so will the value products be in greater demand Prosperity will be ours. Then will the educated, honorable far mer come to the front as never before. Because he is a farmer mand the respect of his fellow citizens and, what is more and in finitely better, he will respec himself and his high calling.
In my opinion farming-agri-
culture in its full scope-is about culture in its full scope-is about take a position in th
The dignified and honorable The dignified and honorable ing the Colonial days by her far mers, will be ours, without the drawback of slavery. Washington, Jefferson, Madison, and oth ers of the illustrious men of the early days of the Republic, were
farmers, or planters. They were the leading class.

I believe that our inteiligent armers' boys, especially those weed among others; for , the and helong to our noble order you are engaged in an uncomwisdom, will miss it if they aban- will have no time to devote to the nents of city life - that crowded service of Satan. The thought heatre of intense competition may give you comfort when the failures many and few and the spinal column as you try to de bound! Mr. Editor. permit me to in
dulge in a little personal reminis ne
Most of my life had been spent pursuits radically differen foom agriculture when I came to back garden that borders the this farm, and $I$ do not think I to ". gooswimming" and retation had not compelled me, having the weeds as an escape from the never meant giving up a lucra- Let a stray bur One. tive business, old friends and as- in some out-of-the-way corner soclations. But now, after twenty each year, that its kind may not
years' residence here, I can truly become extinct say that. out of all the seventy that now mark the way of my pilgrimage, those twenty have been the happiest. I have reason
to thank my Heavenly Father fo my quiet, sweet, rural home. have found ample scope for all my faculties, and have had to have lived in cities and in the wilderness; have traveled far and wide, and seen much of men and diverse occupations; yet, in view of it all. I am free to say that nothing has ever "filled the bill" Perhaps I am raihen fa.st in the. declaration. I will modify it. About five or six years ago, findron of Husbandry. This has filled my cup to the brim. I re
joice in the helpfulness of th Grange, and am glad to find that oy the privilege of helping my young brothers of helping my gage in the arduous duties of
life.

## $\vec{W}$ eeds.

There are weeds, and weeds from the common ones of the garden that. like Jonah's gourd, spring up in a night," and make the discouragingly persistent yellow dock and Canada thistle Though widely different in ap
pearance, they all possess the carance, they all possess the the ability to grow and multiply under difficulties.
On grounds that would utterly On grounds that would utterly disgust any useful plant, the of Australia and, like the grasshopper of St. John, become a Root one up, and a dozerne. immediately take its place. Burn it, root and branch, throw the ashes in the middle of the high way, and an army of its kind will
spring up along the borders pring up along the borders of like unto the ancestral weed that troubled Adam after he was cast out of the $t$ arden of Eden, that will in turn bring forth, each after its kind, ad infinitum. Thus is
the earth replenished and made the earth replenished and made
interesting for the perspiring interesting for the perspiring
sons of the first Adam, who gain sons of the first Adam, who gain
ed
brow.
Since the devil still finds some mischief for idle hands to do, the weed that keeps us so busy may so, then it certainly proves the truth of the line that "blessings brighten as they take their flight."
Think of it, oh ye granger, as with hoe in hand you bend ove your corn rows to uproot the
ever-present weed, and be thank
become extinct. Only let it en-
tirely alone, and you will have done your part you will have the elements will attend to the cattering of the seeds for the new growth that is to preserve
you from the wiles of the person who goes about like a roaring von seeking whom he may de e devoured. don't quite extermi nate the burdock. as it is one of
the best preventatives of idle hands. while its smaller brother. yellow dock, is like unto it, there way that flourish along the high have no foar hut what neture will The rest. sider: The seeds form the chief ood of our winter birds, and we these, our feathered friends, and not leave them to the tende Think of the fate of the porth English sparrow, that stray from its city home in search of veying the broad fields and sur reying the broad fields and fence rows and seeing no weed waving
above the expanse of snow. And when you come across him with his toes turned up and his poor
body frozen stark and stiff, remember that you are responsible the weeds grow undisturbe let your fields. It may not be in of good farming, but the life of sparrow won't be upon your con O, ye farmers ! take care of th weeds; cultivate them with dili gence; so shall ye be made pros-
perous, and your goods will muliply upon the earth Ely upon the earth

The ceremonies attending the dedication of the Exposition
buildings, October 11, 12 and 13. mpressive. The ce claborate and ing the mave. The committee hav $n g$ the matter in hand will de
vote $\$ 300,000$ to that purpose. It is expected that the President of et, nited States and his Cabicongress of the Senators and he States, numerous reprors of ives of foreign governments 0,000 militia and several thou and regulars will be present dedication ode and marches, written for the occasion. will be rchestral with full choral and iotic and other music a dit ory oration, a parean of sica olical floats representing the "nd works will be among the chief eatures of the program.

## THE GRANVGE VISITOR.

The Devil and the Farmer. "Satisfied!" The farmer sat tance from the feeding yards to
There was a conference in the down on a stum and a look of the shipping station is four miles iantly illuminated by a thousand pain darted over his sunburnt thence to Chicago by railroad eternal fires and resonant with "Ah, if the grain were echoed. the crackling of unlimited quan- $\mid$ There will be a drought when we Majesty sat britone. His Satanic need rain, and rain when we need glowing coals and gazed upon of minions with delight. him sat his faithful imps. Beelze on other well-known characters It was a notable gathering. "How fares it up on earth?",
asked his Majesty, after ordering asked his Majesty, after ordering the chief fireman to thro
extra shovelful of coal.
Mephisto shrugged his shoulders and answered in that deep
bass voice which we admire so
much in Gounod's opera: ..As asual, your Highness. Mankind is coming to us fast. Everybody
seems contented except the American farmer

## sked Satan.

"Kicking as usual. Grumbling and dissatisfied at everything."
Satan chuckled. "What the latest symptoms? $\because$ he asked rops: is swearing about with his gages. and is trying his hand at
politics. about which he under stands
making.
who Nonsense, replied Beelzebub, who had hitherto been a silent
listener. "All he wants is a big rop. an unmortgaged farm, free cheap money, a controlling interest in the country and the elec-
tion of Jerry Simpson to be horoughly happy-
bet that if you gave him cynicall "I'll bet that if you gave him all that
he would be as discontented as "I'll take you," cried Beelze-
bub, who prided himself upon his bub, who prided himself upon his
knowledge of human nature. The bet was duly recorded with
sharp stalactite upon a of sulphur, and Beelzebnb, armed with the authority of Satan, asat philanthrophy

It was in the month of April.
Somewhere in the interior of 111 nois, and aged and grizzled tile on the plow urging on a pair of had just kicked clear of the traces. zer," he shouted. "Goldarn this
team. I wish the devil had team. I wish the d
of you this minute.
said a stranger who sudden! stood beside the astonished farmer and wh
"What's the trouble?" er, wiping his perspiring brow
on the back of his hand and thereby leaving a streak of Illin ois soil upon his forehead where the prespiration had erstwhile
stood. -Trouble: Look at this blankety blank field. There is a inch of surface. Ive broken one plowshare in trying to cut are going on a strike.
"Give me the plow. zebub. '.Git up there, Nebuchad was astonishing . ${ }^{\text {It }}$. speed the plow furrowed through
the land. In the hands of the sulphurous stranger it seemed to fly along in spite of snags and
obstructions. In three minutes and eighteen and a half seconds by the farmer stop watch the plowed. It fairly took away the grangers breath.
"Are you satisfied now?" asked Beelzebub.
Well, yes, kinder. You're purty quick at plowing. But now
comes the all-fired hard work of sowing. It'll take a week at least "Nothing of the kind," er
Beelzebub. "Just watch me" Beelzebub. "Just watch me."
He took hold of the immer He took hold of the immense
sacks of seed that were lying in sacks of seed that were lying in a corner and by a dexterous
movement, such as the magician
Herman uses to throw Herman uses to throw cards the grain over the large field. Before the astonished farmer could say "Fitz-John Porter" it
was accomplished. The farm was was accomplished "Are you
drought. Before June the whole crop may be ruined.
Beelzebub smiled grimly
$\because$ Here," he said. taking two immense boxes, Herman fashion.
out of his coat tails, " you will find concentrated sunshne in a storage battery of my
own construction, and in this is oue of General Dyrenforth's cel-
ebrated rain-making balloons. You are free to use either of them as necessity may demand. Fare-

Two months passed before the courteous and obliging BeelzeTub put in another appearance.
The earth was rich with golden harvest. and corn was growing
beautifully. Never had there been such a crop prospect.
"Well, Mr. Farmer," said Beelzebub, slapping his friend on the
oack till his store teeth threat ened to become dislodged, "are
you satisfied now?" A cloud of sorrow overspread
the grangers expressive face. It "Satisfied: Great gosh no!
Look at that field of corn. They say it will be the biggest crop hogs only three dollars a head.
What's to become of us poor
$\because$ My friend," said Beelzebub,
risibly moved, "don't weep
Hogs are going up. Here is private telegram just received
stating that Germany is about to emove the restrictions from American pork. Prices will
double. Then again look at your wheat. It is simply glorious."
The farmer shook his head dis mally.
don't go much on the wheat,
big crop I would be happy, but
my neighbors have as large a "•Bat my iriend," answered the $\quad$ Bat my iriend," answered th
commiserating Beelzebub, "'you wheat is of a different variety took a handful of the ripe grain thumb and fingers. Lo, it turned out to be pure gold!
"The whole field," he said, "is shining gold like this sample and
will average $\$ 10,000$ an acre. For a moment a smile of joy spread over the farmer's weather-
beaten features, but only for a moment. Then came a look of
such abject misery that Beelze bub dropped an involuntary tear. "Satisfied:" he asked. "Holy
Jumbo. no! It's the worst thing Why, only yesterday I advocate cheap paper money at a meeting
of the Farmer's Alliance. Gold "But." a discount
But." cried Beelzebub, impa worth something.," The granger hid hands. "No," he sighed, "I am
a ruined man. By the time have been robbed of a portion of it by my neighbors, cheated of a
part of it by the Mint and paid af my mortgage with the bal Beelzebub vanished suddenly leaving behind him only a cloud
of vapor and a Fourth-of-July
smell. smell.
That ni

## "You are right," said Beelze-

 il himsel er."-MiTimes.

Shipping Steers
You say you will be glad to hear from shippers, for the ben be done with the least shrinkage in transit. Having shipped the major part of 2,000 , to Chicago,
that were corn fed on the that were corn fed on the farm,
with a varied experience, we write that success is best secured with the well favored, and fat
fleshed cattle. Because these fleshed cattle. Because these,
when fully matured, "are always when fully matured, "are always
full." Something depends on the distance care they get in transit, the care they get on the road, Yards before weighing. Our dis-

200 miles. or 15 hours on the
cars from the time of loading on, to running off the cars into on, ment they are fed as usual, hav
menting for ship ing ample supplies of salt and watter accessible all the time.
They are not watered after the el to the depot better, and suff ess on the cars, than theyfu when filled full of water. In
sorting for the cars they are matched in size. quality and
strength, so that in their strength, sp that in their crowd-
ing each other after loading, the power of resistance may be equal o the pressure so they keep each other on their feet; when this is
neglected the little steers suffe crowding under foot, and often
make a serious loss. Bedding the cars so that jerking on the done by some coarse wild hay or break; slippery car bottoms under cattle often cause serious
damage in sick steers and crip ples. In the Stock Yards feed-
ing hay and watering is to be
carefully done for best results enough is better than the thing
that is over done best policy." The buyers cannot be deceived very much by the
hippers. In drinking. if they sip the water slowly, they fill
themselves with air, that weighs little; when they drink "heartily" the first signs given of enough water. When these things are
all attended to, our best steers suffer a shrinkage of 10 lbs . per
head for well bred fully matured head for well bred fully matured
steers from the scales at the ship ping depot. to the sale scales fed
and watered. Thin, half fat, ill
bred cattle are in the habit of making a serious loss to their vefy way.-Richard Ba
in Farmers Review.
How to Measure Hay in the Stack Measuritg is a very crade,
unsatisfa fory method of estimating te weight of hay. There mpracticable to use the scales, and a close approximation to the
true weight will answer all pur poses. Then, by taking intoc con-
sideration that fine, soft hay wil pack more closely than a coarser
tiffer quality, that when earlier in the season it will be-
come more solid than stiff, latecut hay, that the degree of dry weight, that the compactness he lower part of a stack or load is affected by the height, the
ime it has stood or the distanc and kind of roads it has traveled er, it is quite possible for a
person of ordinary experience and judgment to make an esti or mow. It is estimated that
with all the with all the above mentioned con-
ditions, at an average, timothy in stack of ten feet high and up ward, measures about 500 cubic feet to the ton; clear clover, be
tween 500 and 700 cubic feet; new mown hay, about 675 cubic feet; fine hay, well settled, 450 to 500
cubic feet. To find the cubic fee square of the circumference by our one-hundredths (.04) of th
height. Below is given a set rules for computing the numbe the field, stack or load, which can be easily reduced to cubic feet by
multiplying the result in cubic yualtiplying by 27

1. The number of tons of meadow hay in the windrows i the length, breadth and height in yards, divided by 25.
2 . To find the
of hay in a mow, divide the pro ducts of the length, height and width by 15 , if the stack be wel
packed. If shallow, and the recently stacked, divide by 18 and by any number from 15 to
18 according to the density of stack. In square or long stack
the number of tons is the the number of tons is the quo
tient of the product of the length of the base, the width, and hal the height. in yards, divided by
2. In loads the number of tons
of hay is found by multiply ng together the multiply width and height, in yards, and Curiosity Shop.

Dr. Talmage said these things
his Friday evening talk:
The Empire State Express, the led out from Grand Centrld, pulion for Buffalo yesterday mornthird trip. The possibility of going from New York to Buffalo between $9.00 \mathrm{a} . \mathrm{m}$. and $5: 40 \mathrm{p} . \mathrm{m}$. had been demonstrated. There
was an unwonted flutter of exevement around the depot, and was examining it to see whether the train would start on the exact moment promised. At nineoclock
to the second, the locomotive with four cars, started. The played with unusual swiftnes and out and on and up like some monster, half by foot and half by
wing. the train evoked the velocity. At an ordinary season of
the year the pageant of the river the year the pageant of the river
and shore would have been entrancing. but you must remember
this is October, and the woods hung out to greet those who are
passing by. The Palisades were a great. long, high wall of fire.
The villages seemed to pass us more than we to pass them. They
flew to the rear. Yonkers and
Peekshill Peekshill and Poughkeepsie
seemed on their way to New York. The first stop was at Albany, we
were three minutes ahead and had time to spare. The wheels
were hastily tested and then we resumed our tlight, and Utica and by, and four minutes before the he announced for the arrival of falo, astounded at the miracles of modern railroad locomotion. I
had been on the trains in Great Britain and in the United States called by such names as the can-
non ball, the thunderbolt, the
Yorkshire devil, the tlying Scotch Yorkshire devil, the flying Scotch-
man, but this eclipsed everything.
Part of the time Part of the time we went at the
rate of seventy-five miles an hour. combination of speed and safety ing much better than that will
travel on the land ever accomp-
lish. Enough for the ni lish. Enough for the nineteenth
century to have transported passengers 440 miles in eight hours and 36 minutes.-Eagle, Bron
lyn. Y.
Deep Plowing a Failure.
I have been interested for some
time in the discussion of intensive farming, new agriculture.
and deep plowing of late, writes farmer to "Colman's Rural
World." Ten years ago I pur-
chased a farm, portions of which chased a farm, portions of which The top soil for six inches in
depth consisted of a rich black loam, that was underlaid with
clay, sand and gravel. I purchased a three-horse sulky plow deep. That is, I burried six inch inches deep, leaving six inches
of clay sand and gravel on top sowed to oats and failed to har-
est as many as I sowed, the top verming a crust preventing the ave continued plowing this piec of ground from year to year and cluding clover, and have failed oo get as large crops as were
raised on it before the deep cul-
ivation was practiced, and have also failed to get back as good a
top soil as I burried in the first deep plowing. Other portions
of the farm plowed six and eight nches deep, have universally
produced better crops of grain produced better crops of grain
and grass, the soil being the same. I am convinced that too deep plowing all at once on certain
kinds of soil is a mistake, as too much soil unsuited for plant food tom and alluvial lands having soil of great depth may be stir red to a much greater depth and aud space for the roots of both rains and plants.
Good roads are a great benefit to a farming community; they, by to markets. save wear and tear of the harness and vehicles. In localities where good roads are the rule, farms are more valuable, and there is less complaint that
farming doesn't pay.-Baltimore
Sun.

Not Luck, but Work
$\cdots$ Twenty clerks in
wenty hands in a printing oftice twenty apprentices in a shipyard want to get on in the world, and expect to do so," says an old ..One of

One of the clerks will become of the compositors will own a newspaper and become an influtices will cizen; one of the apprener; one of the vill master buld a handsome farm and live like a patriarch-but which one is the is no luck about it. The thing is almost as certain as the rule of will distance houng fellow who he who masters in business, who cleanlily and purely, who devotes knowledge, who the acquisition of deserving them, and who saves
his spare some ways to fortune shore han this dusty old highway, but A Red Ear Calendar.
Calendars are more certain to The crop is always large, but the One of the very best we utility. drom N. W. Ayer \& Son. Newspaper Advertising Agents.
Philadelphia. It is the red ear of the crop. It looks and talks, ts figures very plain, while it is rinted so handsomely as to make it the entire year. Like the with er productions of the firm, this - Keeping everlastingly at it hey both preach a text which they both preach and exemplify.
The calendar is sent by them, post paid, for as cents, and what is so packed as to pass through
the mails uninjured.

LUCK is A MyTh.-There is no
auch thing good or bad. Trace out the most marked example of
luck (so called) and it will end ind
every case in or bad, according as the "luck" is good or bad. The intelligent. industrious, patient and perse-
vereing man makes good luck.
He raises good crops and good He raises good crops and good
stock simply because he is a good
manager. He can not command manager. He can not command
the seasons but he can manage to make the best of them. So, on
the other hand, the poor manager make bad luck out of everything.
His crops are poor his poor and his farm poor, all on
account of his own shiftlessnes or laziness, and the man who
complains of bad luck is but adertising his own ignorance. la ziness or shiftlessness, perhaps

The effect of spraying apple
trees with London purple to pre ent ravages of the codling moth or apple worm is well illustrated by the experience of Mr. Lupton,
of Virginia, as stated in a recent issue of Insect Life. The work Mr. Luptor's orchard, but was
discontinued when less than one. third of the trees had been sprayed. From these trees 1,000
barrels of apples nearly free from worms were gathered while from he remaining two-thirds of the ruit were obtained, quite one prayed trees being from the un prayed trees being wormy and mates that his returns from the orchard would have been in creased $\$ 2.500$, had all the trees

Let me say that I never knew young student to smoke ciga
ttes who did not disappoint pectations, or, to use expressiv vernacular, "kinder peter out. have watched this class of men for thirty years, and cannot now
recall an exception to this rule Cecall an exception to this rule y to weaken a young man's on but to undermine his will and to weaken his ambition.-Dr. An rew D. White, Cornell.
A good way to remove sewing machine oil from cotton is to rub the stain well with lard, then rub

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D. F. Carpenter, of Mass., of
fers good sensible farmer reasons:
"The extension of the postal
system to include free delivery settled parts of the country has many powerful reasons in its fa
vor. Prompt and easy mail com munications is not a luxury, but
a necessity, so important that whatever can be done to improve
it ought to be done, and this not merely for cities, but equally for
country districts. for their rights
are equal and their need as opinions and data carry great
weight in the commercial and
agricultural world because of his
exhaustive inquiry of production
in its relation to population. not
only in the United States but in
all the principal importing and
exporting countries of the world.
He shows that from 1890 to 1880
the bread-eating populations in-
creased 11.4 per cent. and the
wheat area 1..6 per cent. while
the rye area was unchanged, but
during the ten years just closed
the increase in the wheat and rye
area was but i per cent. against
an increase in the bread-eating
populations of 14 per cent. In
1871 the totol wheat exports of
the United Ltates, Europe. India
and Australia were only 120
million bushels. white the price
in India, on the Atlantic Seaboad, ai Chicago and in Liverpool
averaged $\$ 1.46$ per bushel. The price steadily declined to $\$ 1.13$ as
the average in 1883 , when ex-


 $\pm=\square=\square=$

CU SPRAY YOUFRUIT TREES SNINES You have read the stories of
the Mound-Builders. If history
teaches aright, and there are
many evidences mostly circum-
stantial, it is true-that it does,
 they were a thoughtral and in-
dustrious people. There was were they devoid of some degree
of architecture. That they were over-industrious is manifest from
the great amount of work they
did to accomplish the end they did to accomplish the end they
had in mind. It has often occurr our Order would but put forth
half the effort the original
Mound-Builders exp-aded, that
we would have architectural we would have architectural monuments, and strong, in the
name of subordinate Granges far more useful, far more honor
able and far more enduring than were the structures of the original Mound-Builders. Isn't it wort
our while as an Order, isn't
worth your time and labor as worth your time and labor as a
member of that Order, to build monuments in every country and
town in our State. that will
redound to our credit while we
live, and to the benefit of human-

bership are soil-tillers. begin the
ing. Pacific Rural.
U. S. Department of Agricul-
ture, Weather Bureau, Washing-
ton, D. C., Dec. 30, 1891.-In or
der to extend the usefulness o
the Weather Bureau in connec
tion with the preparation and
distribution of the ofticial fore-
casts, it is directed that on and
after January 1. 1892, the period
of time covered by such predic-
tions, which has heretofore been
24 hours, shall be as follows:
The forecasts prepared upo
the $8 \mathrm{a} . \mathrm{m}$. observations will be
made for a period of 36 hours
ending at $8 \mathrm{p} . \mathrm{m}$. of the follow
the $8 \mathrm{p} . \mathrm{m}$. observations will b
made for the following day end
as heretofore, will be issued twice
daily, based upon the telegraph ic reports of observations taken
$\qquad$
It is requested that the follow
ing rules be observed by all per
sons displaying flags. or sound
ing whistle signals, representing
forecasts of the Weather Bureau:
For the $p$. $m$. forecast. receiv
morning, the flags displayed
should represent the weather of
he current day; for the a. m.
forecast, received before noon,
the flags displayed should repre-
sent the weather of the following
Should more than one kind of
weather or temperature be indi-
cated in the forecasts, the last

The Grange Visitor.


## A. C. GLidden, $\overline{\text { Editor and }}$

## ess should be by Repist Money order or Dratit

Entere d at he pose
Second Class Mater

## To Subscribers

Send money when possible by either postal note or money order. We prefer a dollar bill for two for one. The bank will take the dollar, but they refuse thestamps. We shall send the paper only so long as it is paid for. If you wish it continued, a prompt renewal will keep it constantly
coming and save us the trouble of coming and save us the trouble of
making the changes. If numbers mail to reach you, or your postoffice address is changed, notify us at once and we will gladly send
another nun.ber and make the desired change. Packages of papers will be sent to all
them for distribution.
Send the names of your friends on a postal card whom you desire to receive sample copies.

## Down in Dixie.

Jan. 23, 1892.
We are writing this letter at
Pass Christian on the Gulf. The outlook from the car window, as tion, is not very inviting. Norway pines of small growth are scattered about in a park-like
manner; cows are grazing on the common and the air is as mild as in May.
We shall not attempt a descrip-
tion in regular order of our jour ney, shall only give impressions of the country so far as we have
passed through it. Many of our readers, like the writer. doubtless, have never traveled south of the Ohio river.
Starting from Cincinnati at $8: 30 \mathrm{a} . \mathrm{m}$. of the 16 th inst., we
wind through the hill country of Kentucky once cultivated to their summits, but now evidently
abandoned by what little enterprise might have been exhibited at an earlier date in the development of the country. There is prosperity. The fences and fields are grown up with patches of briers and bushes and clumps of trees. The more productive
and easiest tilled patches of the fields are worked, producing corn and occasional small areas of tobacco. We saw very few
straw stacks and only occasionally a stack of hay. and what few of the latter were visible were eaten into by stock, until they already looked very much like a toad stool standing on its thick stem. Cattle were fed in racks
out of doors or by scattering cornstalks over the ground.
The people ride on horseback generally as was evidenced by the tracks along the highways.
There was a little snow on the There was a little snow on the
ground from Cincinnati to Louisground from Cincinnati to Louis-
ville, and some very quaint outfits on runners were seen at the station. Kitchen chairs were
generally used for seats in the sleighs, and the wagons were quite primitive in style. The
farm buildings, to a northern farm buildings, to a northern farmer, appear very inefficient. They are built up cob fashion with poles or logs, and have the merit of ventilation if no other. They look more like crotched barns than like a protection or grain. Scarcely one of the buildings stand erect; everything is on the bias; poles prop up little structures that would on the groxnd. Everything ex-
-smoke houses and front fences. and water will make Kentucky paint, and the prevailing fashion can be indulged in to an unlimit were generally fine and in good condition, and they are an illus tration of the value ofgood stock to a state. Here by the car win dow is the other extreme. Ma-
ture cows weigh about 500 pounds aud are of that nondescript char acter called natives. They look
as though they might give about as much milk as a goat, and be as serviceable for beef.
We saw some very good farming lands about Louisville, and good buildings, but around in the vicinity of Mammoth Cave ver
ittle good land was seen. Th ave itself is worth going a lon way to see. The trickling of the urface waters through the lime sock during the ages has dime and carried it through the underground rivers o the sea. A boat ride of 60 ods on an underground strean 40 feet wide through an immense
cavern 90 feet high and 300 fee below the surface, in inky dark ness except for the lamps carrie by the gentlemen of the party was the grand feature of the oc
arock of Ages cleft fo e" seemed an appropriate song, and it was sung with an appre ciation and zest seldom experi enced. "Shall we gather at the River" sent its echoes through and into the blackness of dark ness beyond where none but the ruide dared to venture.
We leave the cave early in the evening, and reach Montgomery
early next morning. To a north rn man with agricultural taste and inclinations, Alabama has
but little to offer. Cotton is the but little to offer. Cotton is the less natural fertility in the so than other crops, although the climate stimulates every plant to do its best for the farmer. Cotwners generally, and are rente the colored people at about $2 \frac{1}{2}$ bales to 10 acres, according bale of cotton now brings bout $\$ 35.00$, but is very low in price, $6 \frac{1}{2} \mathrm{c}$. to 7 T c c. per pound The rent is the first lien upon the crop, so that if only so much be grown as will satisfy the rental the person who has advance stores or money to grow it, must
wait until a more favorable seawait until a more favorable sea-
son for his money. A farm is rated as a 10 -mule farm or a 20 mule farm, allowing 20 to 25 acre also rated as a one mule farme or a two mule farmer, which ha o significance until it is explainImproved methods of cultiva ion have so far stimulated production that there is a glut in the market for cotton, and prices are ery low.
The manner of cultivating and fertitizing seems to be suicidal to sertility. Grass for a sod is con Artificial manure cotton culture. Artificial manures are resorted to
to make the crop, and there can thus be no addition to the humus in the soil, without which no soil can stand constant production. The more intelligent and houghtful men appreciate this condition of affairs, and are advocating a change with little prospect of effecting any great mprovement at once, so firmly is the prejudice against grass in the cotton rows fixed in the minds of the cultivators. A large fertilizer factory is located at Montgomery that sells its product at 21 per ton, and 200 pounds per acre are applied to grow per
crop. The fertilizer is applied farm, who cannot endure the rid-
by hand in the furrow, and no icule and stigma which is thrown
improvements to save time in
planting have come with the demand for cheaper cotton growing. Every land-owner is desirous of selling a part of his holding to northern farmers with push and enterprise, but he seems to have no desire himself to do the thing he expects another to perform These southern men seem to know what is desirable, but col
prefer to sit on their shady col prefer to sit on their shady col
onnades and see some one else perform the necessary labor. I is a very easy thing to criticis the methods of the negro, but
quite another thing to get at the quite another thing to ghow how it should b done. There is no snap to any one's movements; all business i done on the assumption that there urry anywhere
The all-absorbing theme cotton, and how to get the most out of the renter. All expect produced the fault lies, not in un fertile fields, but in the lazines mule" farmer rents land, he de votes about a fifth of it to corn and has the whole of it to feed his mules, as the renter in Mich gan has the pasture of sufficien acres to carry his animals throug ne summer.
We cannot recommend tha farmers of Michigan go to Ala bama to cultivate land and grow cotton so long as there is land here to be had upon which they can practice familiar methods with a degree of success. The
whole system of southern social customs must be broken up be their usages into the state and feel at home there. It is the hardest lesson for them to lear hat laborignifies the labore dignity rather lies in folded
hands in leisure, and in a competence that is independent of it We shall give farther impres ions in another letter to follow, but can see now why the Grang has not prospered in the south.
and why it never can until the and why it never can until the
changes which must come are present.
Caricatures Upon the Farmers.
Whenever a city quill drive Whenever a city quill driver
esires to be funny, he pulls torether what little knowledge of country life he has gathered from The Judge. Puck and other fun ygraph papers, and plunges characterize the farmer
Such an article appears upon the second page of this issue We have seen it going the rounds of commercial papers, and find it at last in an "Agricultural Re view" (Heaven save the mark) published in New Jersey, with no adverse comment. thus saying to ts readers: "Look at the realis generation of farmers.'
That this satire comes from city-bred reporter is evident from the fact of his laying the Beelzebub and the farmer been Beelzebub and the farmer in cen ral Illinois, where "there is a rock or a stump on every square cles very difficult to find in that state. We are not objecting to pleasantries that "take off" the persiscrasies of people, but the taught misrepresentation, empts, ought to be resented They are a covert insult, and mean more than simple badinage. It says to city and village readers that farmers are boors, and breeds that pharisaical feeling which culminates in the expres-
sion, "Can any good thing come out of Nazareth." It turns many sensitive boys away from the
upon their father's occupation There are numerous innuendoes and flings at farmers. bearing the stamp of trutn, which, uncons ciously perhaps, beget a contempt for a profession which is subjec to such a sarcastic criticism. There really are no more grumb ling farmers than grumbling law yers, according to numbers. Hu nan nature is about the same everywhere; but there appears to be a sentiment that attribute all the frailties of life as having their native abiding place on the
farm. If, however, honesty and integrity should die out of the omes of farmers, they would b nearly lost out of the world Froude says: ${ }^{\circ}$ Men sound in soul and in limb can be bred and reared only in the exercise of plow and spade, in the fresh ai and sunshine, with country en amid foul drains and smoke blacks and the eternal clank of It may be said that farmer can stand it with such an array of facts on their side, but array tacks are often wanton as well as unwise in that they have a tend ency to educate a public sentiditions surrounding it, and thus drive those from the farm wh would do it honor.

## Master's Office.

Berrien Center, Jan. 28.he following General Deputi Jason Woodman, Paw Paw
J. J. Woodman, Paw Paw. Mary A. Mayo, Battle Creek c. G. Luce, Coldwater.
special deputies

Sister E. D. Noaks. Church Corners, Hillsdale county Dwight Arnold, Eastport, An
rim county. John Pas
esee county.
R. V. Clark, Buchanan, Ber Iien county.
J, W. Ennest, St. Johns, Clin ton county.
Montcalm cou Sister N. A. Dibble, Allegan

## Field Notes

Though the train was two hours ate at Battle Creek on the 21st, out a grumble waiting to hurry us to the Pomona Grange at Pen field Grange hall
Dinner was over and visiting ad run pretty high as we drop ped in and met the familiar face Poorman. Smith, and others well as our associate worker Si ter Mayo, and daughter; and the very soon made us know the rest as well.
We then installed the officers of Calhoun Pomona No. 3 and Penfield Grange, after which tention to our talk for an hour After parting from this visit we were taken to the pleasant
home of Bro. Simons, of S . Bat tle Creek, to be ready for ou work the evening of the 22 nd.
And we were glad when Bro. Perry Mayo drove in from his after a chat and supper accom panied us.
Here we found Battle Creek Grange just settled in their new city, and commenced life anew. The old church was pretty well filled. though other meetings in the vicinity and lagrippe held their share. New applications
and expressions outside the gate and expressions outside the
certainly point to success.
ertainly point to success.
After installing their office and trying to talk them tired, we left for a night train with Bro. Smith. Long will we remember these people and their

> Shakespeare will please excuse us id
we monity him thus: Thrice is he clad
who hath his system strengthened with who hath his system strengthened wit
Ayer's Sarsaparilla, and he but naked though a arayed 1 ln furs, whose blood
toor or with disease corrupted. poor or with disease co

Our mission as members of the
committee on Woman's Work is to try and extend the influence of the Grange, and the attention of every committee in the Subordi-
nate Grange is earnestly desired nate Grange is earnestly desired
on this Woman's Special Work. In calling upon the nate committees on Woman's Work, within my jurisdiction, I
earnestly desire the aid and earnestly desire the aid and assistance of each and every one
to further the good work. As it to further the good work. As it labor for me. I desire and expect the hearty co-operation of $m y$ sisters in this matter; as the old adage. "never too old to learn, is true in my case, and possibly
you are just the one to give the desired information and instruc tion. Start the ball rolling by man of the committee in you ocality; or better yet, communicate with all the members of the would not be very serious Work; it would not be very serious. I am
sure I voice the sentiments of my associates when I say that is just what we desire: to corre plans of labor, and as we become nore able to understand our work

FEB. 1, 1892
Special Committees I would suggest that the master for the year: 1. Committee on Delinquent Members and Collection of Dues,
whose duty it shall be to contin whose duty it shall be to continously labor to secure the return
of delinquent and unaffiliated members. Where members are meack for several years, it would be as well to reinstate them upon $\$ 81.20$.
2. A committee on New Members, in each school district whose
duty it shall be, in a friendly way, to visit and interest those who would make good and useful
members. A Grange however. mas no legal right to receive ap plicants from the jurisdiction o anothe
sent.
3. A committee on Program
and Entertainment-of which the lecturer should be a member whose duty it shall be to provide
a subject for discussion and a few recitations or select reading,
for each meeting, and an occas ional banquet. such as a dinner or supper, to which
invite a few friends.

Allow me also to add a fe words of encouragement of order I know that after the great suc-
cess that has crowned our offorts in the past that you will cheer duties that will devolve upon you as Patrons. No matter how
devoted, efficient and zealous your officers may be they cannot but it will require your presence to their labors. The Constitution of our Order requires that each
Grange shall meet at least once a month. That implies that each member shall also attend the meetings at least once a month.
Each Patron owes something to as we ought, each could bring at least one member into the Grange the coming year. We should as we ought to give them a better
opportunity in life for their social opportunity in life for ineir social than we were permitted to enjoy. the full duty we owe to the Grange
and to the community in which we live? I appeal to every Patron to join us in our effort the build up agricultural class, remembering that the great and grand object and crowning aim of our organiza-
tion is to "educate and elevate the American farmer

Fraternally,
Master Penn. State Grange.
Niagara's Great Tunnel.
There is no need of a scientific that is to give Niagara Falls village all the power that can be utilized, doubtless, for half a cen tury to come. It is simply a tun nel cut through the rock, beginn falls and running, with a steep ascent, to a point ascent, to a point a mion
above the fall and continuing on
from there a mile and a hal from there a mile and a har 160 feet below the surface, abou 400 feet from navigable water in
the river and connected with the the river and connectad, through which the water from the river
enters and is drawn through the shafts and wheel pits into the great tunnel below, which forms an immense tail-race for all the mills and factories. The wates which are to be put by the company in a number of the pits, and delivered to the mills or factories at that point or transmitted by cable, pneumatic tube or electric ity to any other point desired. an arched roof and it requires no masonry, of course, as all about
it is solid rock.-William Drysdale in an Exchange.
"Ayers Cherry Pectoral has given me
great relief in bronchitis. Within a great
rath Ihate senent some of this prepa.
ration


Circumventing the Egg Eaters. In your last issue you made ing hens and recommended dark nests as the best wy of stopping a very good plan, but I have succeeded in stopping the pracall the nests were in the light and I will tell you how I did it. in to lay as usual. but the eggs not putting in an appearance in o suspect that rats. or perhaps more intelligent "animal" was That the hens were engaged in a believe, but resolved to lay bare the mystery if possible. One day I hid myself in the large building that we used for a hen-house and some time to wait, for one of the hens was just then engaged As soon as the egg was dropped the hen got off the nest with the
usual clatter. But the actions of usual clatter. But the actions of
the flock were extraordinary: at the first sound of the hen's cackle
the whole flock left off their hunt the whole flock left off their hunt
for worms in the yard and came tumbling pell-mell into the buildThe biddy that had laid the egg
tured and became one of the assaulting party and the attacks were directed at the poor egg.
The roosters seemed fully as erce as the hens and it was only
short time till there was nothng left of that egg. To say that
was angry would be but a mild statement, for I not only saw where atl of my eggs in the past
had gone, but from what I heard of the egg eating habit I did not believe it possible to cure the
fowls of this propensity. But I make them very sick if I could do no more. So I went into the
house and made the most distasteful mixture that 1 couldmagine. put in some cayenne pepper, and
to that I added sugar, salt, mustard, and perhaps some other disforgotten. I had not heard that habit, but it my object to get the most nauseating mixture possible. some egg shells that I happened to have at hand, and for a trial
took out a couple of the eggs and put them into the nests. I had expected to see the birds them. wheit the whole flock assaulted and devoured those eggs as if they were the daintiest morsels but because I knew of nothing
else to do I went in and filled more egg shells and continued to could eat no more. Before they had finished the last eggs they seemed to loose their enthusiasm
in the matter, and to act as if all ere not right with their luxury o make a long story short, my hens for the next day the weather," and moped about as if dissatisfied
with something. I watched them gain, but they contented them good look at the eggs, and leaving hem severely alone. From that
ime I had no more trouble with those hens eating eggs, and I be-
lieve that the dose that I give them sickened them of eggs for good.
Mary Ans, in Farmers' Review

## Recent Legal Decisions

Warranty of Harvesting Ma chines-Where a harvesting ma chine is sold upon a written war
ranty. which provides that the machine is warranted to be well made, of good material, and dur upon one day's trial it should not work well the selling agent should
be immediately notitied, and reasonable time allowed to get a repairer to fix it, after which, if
it did not work it might be returned, it is necessary,
order to take advantage of the warranty to comply strictly with its conditions, and a failure to
give immediate notice of a defect give immediate notice of a defect
is a waiver of the breach, and machine--McCormick Harvesting Co. vs. Martin, Supreme Court
Nebraska.-Farmers' Review.

Effects of Shearing on Sheep.
The effect of clipping on sheep The effect of clipping on sheep
and horses. says our Paris cor correspondent. is generally con in weight. In other words, the in weight. In other words, the
animals shorn exhale more car bonic acid, and eliminate more urine, that is to say, part with
more nitrogen. It was concluded that the clipped animal in order to maintain its normal temperature would have to consume larger rations. These were the deduc-
tions of Weiske, drawn some years tions of Weiske, drawn some years
ago from his experiments. Mr. feiffer. of the agronomical sta ing the effects of clipping on itrogen, and the elimination of arbonic acid. Sixteen sheep were selected; the experimen
asted 29 days in the month of asted 29 days in the month eptember; during the last period
of days the animals had their eeces, the nitrogen daily thrown
fff fluctuated from eight to grammes. In the second period,
extending over sixteen days. the sheep being then clipped. the elimination of nitrogen varied
from seven, eight to $6: 8$ grammers daily. The experiments would but only in appearance. The car-
bonic and test of no importance. It is a fact that clipping excites appetite; and horses which hav retaining their long hair in point of weight. The explanation is
this: The appetite of shorn
animals is increased for the first few days, then returns to it
normal standard, because the animal rapidly adoptsits economy ince the elimination of carbonic acid by the lungs and of nitrogen by the urine. inst
The conclusion reached by the
French experimenters entirely
accords with the opinions held
by breeders of Merino sheep in
the United States. It has always been found that the heavy fleeced
thoroughbreds, which are shorn early and unwashed. always do better than if shorn later. In
fact it frequently brings about a distinct improvement in the con
dition of animals which had no dition of animals. Whe have seen
been doing welh. Whe thermome
sheep shorn when the sheep shorn when the thermome
ter showed the temperature to be several degrees below the freez-
ing point, and while some care was shown in blanketing for
few days, the animals seemed to few days, the animals seemed to
become accustomed to the change very soon, and showed improved
appetites and greater activity
The wool soon starts growig The wool soon starts growing. and by the time they are calle
upon to stand the hot July and August suns, is of sufticien
length to be a great protection length to be a great protection.
That the fibre is healthier when
shorn early is certain, and the fleece is much cleaner than if allowed to remain on until warm
weather and then shorn unwashed. In this climate, if washing
was entirely done away with. and was entirely done away with. an end of April, we believe the
practice would give more satis practice would give more satis of great advantage to the sheep. Of the Nearness of Animals on this subject in the February
Atlantic, says: There is no reason to believe
that "time sense," which Prantl laims to be the exclusive attri derives the superior mental evoution and equipment of the h
man race, is wholly lacking the lower animals. Every cre ture endowed with personal con sciousness and memory must know that it is the same being to
day that it was yesterday, or, in other words, that it exists in time. The possession of this knowledge does not imply the possibility of indulging in philosophical reflections about it any more than the
possession of thoughts necessapossession of thoughts necessa-
rily involves the power of thinkwould but thoughts, although it would be rash to affirm that ani ing themselves up to meditation by recalling mental impressions and ma
rime-sense is very highly de many wild birds. as well as in dogs, horses, and other mammals, which keep an accurate account
of days of the week and hours of
the day, and have, at least. a lim-
ited idea of numerical succession
ust purchased an organ for use
in the hall, and are contemplat and logical sequence. A Polish artist, residing in Rome. had an exceedingly intelligent and faith-
ful terrier, which, as he was ful terrier, which, as he was
obliged to go on a journey. he
left with a friend, to whom the of "Grange Melodies." We 'Grange Melodies. Dec. 10th. by the reinstatement making a total by application. over forty. Our hall finished, being papered, painted, and carpeted, and we own dishes, incluaing
spoons.
spoons
The
The following officers were in-
stalled Jan. 1st, by Geo. C. Barer of Jefferson Grange: Master, Chas. F. Barrett: Over-
seer, Bert Hall: Lecturer, Bessie Dow; Steward. John Barritt;
Ass't D. E. Chestnut; Chaplain, DeWitt: Secretary, R. E. Perry Gate Keeper. Cass DeWitt: Po-
mona. EmmaGregg; Ceres. Sarah Gregg; Flora. Esther Sturdevant;
Lady Ass't Steward, Melissa Wa-

Battle Creek, Jan tor: Calhoun County Pomona
Grange met with Penntield Grange. Jan. 21 st. for the pur-
pose of installing both sets of did the work" in A. J. Crosby vinced us that he had been there before. After the installation he gave a very interesting lecture, Following are the officers of C. C. Poorman; Lecturer, Jennie ain. Sister Anna Lee; Treasurer. C. B. Convis; Secretary, Sister C. C. Poorman; Gate Keeper,
Thos. Brigstock; Pomona. Jennie
Smith; Flora. Eva McDermid; Ceres, Caroline Struwin: Lady

Ed. Visitor: Sparta Grange Dec. 4. 91 , to celebrate the
th anniversary of the founding of the Order of Patrons of Hus-
bandry. The meeting was well attended. The program, consist-
ing of dinner, speeches, reading, recitations, masic. \&c.. was en lar meeting Bro. Bradford, assist-
ed by Sister Bradford, installed the following officers for the year
1892: Master, E. S. Carpenter; turer. Sister S. Cumings; Steward, Joseph Lown: Ass't Steward,
Thomas Whittall; Chaplain. Sis-
ter Powell; Treasurer. W. S. Duley; Secretary. R. S. Coleman;
Gate Keeper. Smith Lown; PoGate Keeper, Whittall; Flora. Sis-
mona, Sister
ter Duley; Ceres. Sister, Coleter Duley; Ceres. Sister, Cole
man; Lady Ass't Steward. Sister
$\qquad$
Greenville, Jan. 18, 1892-Ed. Visitor: At a grand, good meet-
ing of Montcalm Co. Pomona Grange No. 24 held at Crystal
Grange Hall on Jan. 14, the folhe ensuing year: Master. F. S. Fillmore; Over-
seer, E, Porter; Lecturer, H. H.
Hinds; Steward. H. J. Beech; Hinds; Steward. H. J. Beech;
Ass't Steward. George Douglass; Chaplain. Sister C. C. Merritt;
Treasurer, George H. Lester; Secretary, B. B. Crawiord; Gate
Keeper. John Fowler; Pomona,
Sister H. H. Hinds; Fiora, Sister J. M. Parkus; Ceres, Sister
Jerome Pently; Ass't Steward, Sister George Douglass. Bro.
George B. Gibbs was elected Department Organizer. Also at a meeting of Montcalm held in the Hall in the city of Greenville, the following officers were installed: Master, B. B.
Crawford; Overseer. John Moon; Lecturer, Joseph Burgess; Secretary, Severn Thompson
fraternally,
B. B. Cra
The people of Newfoundland are determined to get even with the Canadians for their non-support of the in the matter of a reci procity treaty with the United States, They have imposed a differential tax of 50 cents per barrel on flour coming from Can ada, which act throws the whole flour trade into the hands of Americans. to Canada of the sale of 200,000 barrels of flour per year.

## THE GRANGE VISITOR.

โadies' Department.
Welcome to Pomona,
In a noted eastern city
On Potomact banks so fair,
Where the nation's legistation
Met a band of honest workers,
Seeking rights which others did deny;

 Jined foresesin that city
And organized the Grane
Twas formed ass a school of instruction.
So the noble founders said. For hey thought that the tatmers
Had lone enongh been led.

 They decieded to make no division,
Buta tatmit woment ammont the best. So our food brothes say.
E.specially when the teast is spread




Their heacry thankhs and praise.


## 

Societies for Women. What
Grange has Been.

## 

Probably these few words will
not startle an audience of to-day as they did twenty years ago.
but they embrace. ais they did then. thoug

## ofathon

Almost innumerable societies
over are springing up and
over and are renderins
invaluable service. not only to
women, but also to individuals of the opposite se
ety in general.
we find the W ( T among thes with its emblem, the white rib
boon. has belted the world and in women of our own state are
Is it necessary for me to ston and point out the wood which has women who are battling against be other than a loyal calling, under the leadership of such women
as Mary Leavitt and Francis Wil. as Mary Leavitt and Francis W
ard, of whom it has been said:

## 

Our aid societies and foreign
and home missions, with other and home missions. with others
too numerous to mention. are of on by women. But what ca ated such a radical change? My
riends. it is because woman no liends. it is because woman no glass, but, by constant toil and perseverance has groped her way
into the bright. clear rays of ed
ucation and culture.
How has the Grange aided in the work of elevating the posi-
tion of the farmer's wife and daughter in society? They were hangry and thirsty for some work and the laundry. They were cager to advance. and when the seized it with determination and did improve
The founders builded wiser was take into when woman quas with her brother man, for he perpetuation of the order de pends largely upon the untiring devotion and zeal of the sisters f the order. They have an equal oice and vote and are eligible to range, from the humblest in the subordinate to the highest in the

National Grange. They were apt well tried in the fall and becomes fifty-dollar one, you were hired
scholars. and soon learned to tainted; tea and coffee pots are to teach school. Do your be conduct business according to
pariamentary usage and became uation of our country as thei brothers.
They had acquitted themselve
so successfully that in 1888 a new so successfully that in 1888 a new
department was added to the Grange-that of Woman's Work and our state has been well or ganized by the various commit
tees and is now well at work. first the work was laid out into
districts, then arose a desire for committees from each subordin ate Grange.
The work
by our Patrons. It appeals to the finer sensibilities of woman-her taste and her devotion and love
for the order and the children for the order and the children
This work looks to the education
of the youth, establishing libraof the youth, establishing libra-
ries, organizing and looking after ries, organizing and looking after
Juvenile Granges and preparing
and decorating for Children's

##  <br> 

and maturing such measures fo the future as shall best advance
and upbuild the educational and social features, th
injured upon the stove and by
leaving contents in them from
one meal to another; soap suds
are thrown out instead of being
fifty-dollar one, you were hired
to teach school. Do your best
and you will get more for your and you will get more for your
next. Make yourself necessary
to those who employ you, by in to those who employ you, by in
dustry. fidelity and scrupulous
integrity integrity. Put zeal into your
work. Hold yourself responsiwork. Hold yourself responsi-
ble for a higher standard than anybody else expects of you. Be
constant, steadfast and perse vering.
Some women. especially those who have seen better times and are always lamenting their lo and belittling the employment which gives them their bread. They consider the necessity of
self-support a crime committed upon nature and precedent. To
the four winds with such ideas All such idols must be broken
All down before woman can become self-supporting and receive equa
rights and compensation. Be as sured as long as you do not hono you. Many are the instance permit. in nearly every occupa tion, where women degrade them These things are not to be smile at or despised as unimportant.-
They are the motives and ideas They are the motives and idea.
which seriously hinder the work ing woman from becoming free command success, she must cease to make work. with its trials and
drawbacks which accompany it a personal matter. When she takes advantage of being a wo
man, she begs the question and sinks into pauperism by appeal
ing to sentimentality instead of justice. Our woman criminal ap risk of such punishment as would be meted out to an equally guilty
man, and acts upon this persua man, and acts upon this persua-
son. Native or foreign, young or old, handsome or hideous. she the vantage ground of her sex.-
What then must be done? What is essential that this generation shall have a class of business
women who shall add dignity to women who shall add dignity to
their sex. and stop this hue and cry of being chained by poverty
This clamor of poverty can b quelled in only one way, and that
is. first. last and always, to enis. first. last and always, to
gage in any allotted labor, ev me most menial. with a deter
mined purpose of performing i
as if it were the one and sole ject in life.
A writer in the Christian Union
some time since said: who will succeed in the world it
he who is content. for a time. to do two dollars worth of work for
a dollar." This same precept should apply to business grirls a
well; it should be ingrafted into the heart and brain until it be comes a part of our very being
a living organ as it were. There should be a determination to ren
der even the smallest obligation thoroughly in every respect. The he work should be lost sight of in the endeavor to do it well. The
first. skilled workmanship; last first. skilled workmanship; last, Some girls fill places with but
little interest in them. They work along with no aim at busi ness-only waiting for the prop
osition that makes them a wife Many of those who are left
widows are those women who were denied all knowledge of buHowes principles and method How can practical, sound busi
ness men sit idly by and see their wives and daughters totally igno rant of business in even its sim-
plest forms! This age is terribly in earnest. Girls should receive is master of four trades A man who the fifth and not be spoiled. The same with woman; let her develop her capabilities, and when the will not be compelled to fold he hands and ask, "What can I do:" man, and when "the open to wo worthy of his his hire," the will she fill as well as occupy these different positions; the wages will be equal, and no longer will we
be forced to admit that woman be forced to admit that woman
acks capacity for business.-Juia Ball, in Michigan Household.

The first literary society ev
the Bombay for native women,
is the Bombay Sorosis, formed on the model of the New York society of the same name. Two

Hints About Mending.
Good, substantial darning, nea clothing in good order until it has ielded its utmost quota of service 5 an essential part of the train Clothes worn family seamstress are almost thrown mending speedily are they away, so bungling. incapable mending and almost worse than none. The girl who cannot mend has been neglected in that important par of her education, which consist own clothes. There is a of her ly grace in the ure of the needlly, its employment that will neve go out of fashion.
The small stitc care and promptuess rather that skill-the button replaced imlittle rip fastened, comes off, the exchanged for a new one, the
frayed buttonhole neatly renewed -these things betray character Life is made up of these appar
ently petty and insigniticant daily emergencies, and the way
in which we meet them decises whether the aggregate will be
order and beauty or confusio and waste. Girls should think of this when they put on some-
thing that needs a few stitches. There is an efficient kind of
mending in advance which may
sometimes be done ing the parts of greatest wear
Children's stockings will keep in good condition much longer for
running on pieces to line the heel and knee, before they are worn.
Stocking tops should be saved for this pupose. The carefu! roll in her stocking-bage so sood she can always choose a piece to
match. If it is put on flatly, cat stitching the edges, not turning either comfort or good looks, and sons, those portions of the foo sons, those portions of the foot
which should wear first (the ball of the foot with some persons,
with others the heel) may be rum with soft yarn or darning cotton this work while stockings arm

Coat sleeves in a calico dres should have the lower part of
the sleeves made double, taking care that the interlining matches the outside, so that when the
elbow begins to wear, the is already provided, and it can
be mended much more neatly and easily than when a piece has to
be inserted. Broken knees and elbows in
ackets and trousers are best restored. when past the relief or piece quite across. Make a wise. and put the new piece into the seams of the garment on
each side. In mending a faded garment, make the new piece less conspicuous by washing it in strong soapsuds and dry in the Mending has its beneficent surgery; it is often best to resort
to extreme measures. If an to extreme measures. If an cut it quite through to the bottom buttons and buttonholes all the way down. bind the neck over
with soft binding tape, and it i. better than new. A flannel skirt, the hem cut off and a new one made with a row of feathered-stitching-black is pretty on red flannel, and pink or blue on white; hen put on a yoke fitted to the This yoke may be lined if the lannel is not very heavy. Cotton shirts worn on the edge should
be bound, and black dress-braid is sometimes used for this purQuilt
Quilted satin, linings in jackets
and wraps are apt to get frayed and wraps are apt to get frayed
at the edges ana are very neatly restored by putting on a flat silk braid to match, just wide enough wraps can almost always be muck improved by a skillful needlewoman for the second season's
wear. A shabby overcoat is wear. A shabby overcoat is
sometime quite rejuvenated by a broad, heavy, binding of woolen Hoods are freshened up
by a bow of new ribbon, or a bit of contrasting color in cords and balls.-Doroth
Gentleman.


| OFFICIAL DIRECTORY. | Grand Rapids \& Indiana Railroad. |
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Kept in the ofice of sec'y of the
Michigan State Grange

 GERMAN
HORSE AND COW POWDER
 MORTIMER WHITEHEAD








 Throunh some staineess apprites $s$




## 

Some New Year Resolutions.
Husband and Father-Resol d, That in my effort to mak money this year, I will not for dren, and that they have some

That I will spend less money
tobacco and more for home
That I will give more attention als and children's education, mor-
als. That I will pay my boys for the do on the farm.
That I will be just to my neighbors, honest in dealing with men, and civil in my manners to the
outside world, if I am not to my ife and child if I
wife and children.
Wife and Mother-Resolved, prescriptions in governing my children and more humanity. That I will use more tact and
less tongue in managing my husband.
That I will not nag my boys
for their dirt and disorder have feelings and souls. if nature was ou
made them.
That I will manage their own affairs, and not gossip about them if the
That I will try ne.
that of all objects moulded by the Creator nothing else possess es such power for good as a sweet.
loving. lovable woman. And my loving. lovable woman. And my
constant aim shall be to become
Young Lady-Resolved, That I will associate with no young man who drinks or gambles; neither will I permit young men to smoke in my presence. with my young lady friends to
discountenance such evilsin their gentleman acquaintances. That I will use the mind and power God gave me for something besides flirting and social
frivolities. frivolities
That I
else in the man I am going to marry besides a "lovely" mustache, good dancing legs, and an ability to gush sweet sentiment.
loved in the home, so patient
with the boys, so kind that of aerial navigation. When with the boys. so kind to the siseffect which it would far-reaching ters, so companionable with pa- effect which it would have upou
rents that not one will dread lest the civilization of the age. and I become an old maid, or have the benefits which would accrue any sympathy to give to the to mankind, the wonder is that
man who may become my hus- the affair has not been ere this band. Young Man-Resolved, That I
will be a man. Not a flesh and Will be a man. Not a flesh and
blood whisky barrel, not a tobacco juice sprinkler, not a smokeco juice sprinkler, not a smoke-
stack, not a foul-smelling, foultalking, foul-acting, two-legged thing, but just simply a man.
with a clear brain and a clean heart. clear brain and a clean That being a man I will fight mankind. to say no to hurtful treats offered me. young men of bad habits.
ful in my work. That matrimo
delusive as it is attractive. That
cupid is often a blindin. cupid is often a blinding little god. But that I shall try to
dodge this power in him, and in dodge this power in him, and in
mating for life do so with my eyes open. I will marry neither a butterfly,

## Electricity in Agriculture.

 It is well known that currents of electricity exist in the atmos-phere. Clouds are charged and discharged. There is a constant
change of electricity from earth to air and from air to earth, the latter being the great reservoir
for all electricity. Hills, mountain for all electricity. Hills, mountain
peaks, trees, chimneys, spires, in fact, all, points elevated above he earthis and discharging th atmosphere. Again, if two iron rods are
driven into the earth and connected by a copper wire with an electrometer in the circuit, the affected, showing that currents of electricity are running through the ground. Now. what is the function of these atmospheric and ground electric currents:-
Many scientists are agreed that Many scientists are agreed that due to electrical action; but my lieve conclusively that electricity is a potent factor in the economy
of nature, and has more to do with the growth and development of plants than has hitherto been
known. Davy succeeded in the decom. position of the alkalis, potash
and soda, by means of electric currents. In our laboratories.
water and ternary compounds are rapidly decomposed by the bat tery, and we may reasonably suppose that that which is effect-
ed in our laboratories by artificial means, takes place in the great laboratory of nature on a grander and more extended scale.
Plant
Plant food is carried throughout the plant by means of the low of sap; these currents circu
late through all the rootlets and center, as it were, in the stalk carrying their tiny burdens of various elements and depositing them in their proper places. That this phenomenon of circu
lation is due to electricity canno lation is due to electricity cannot
be doubted. Most plants arow more rapidly during the night than in the day. May not the
following be a reason for this: We have already mentioned how electric currents pass from air to earth and vice versa. At night the plant is generally co self becomes a good conducior, and consequently currents of elecricity pass to each through this medium, and during the passage convert soil elements into plant
food and stimulate the food and stimulate the upward solved elements and carry them or their proper places.-Mass. Ag'l College Bulletin.
The Problem of Aerial Navigation.
In the absence of any covern mental or concerted effort the Cosmopointan Magazine has deof the problem of the solution tion, and under its directigaseries of experiments will made which it is hoped will be rought to a satisfactory conclu-
Unquestionably the greatest
eriously studied by some of the covernments of the world. The cosmopolitan does not enter portion of the plans to be put portion of the plans to be put
into execution were submitted to he French government by a memong ago as 1867 . doubtedly great. Tifticultiere an way, but the attempt will be teadfastly pursued by the Cos. mepolitan under the direction of can be obtained, until success is secured, even if it has to be carried on through a series of years. No patents will be applied for
in the result of inventions made If success crowns the work the result will belong to the pub Mr. Thomas A. Edison in re sponse to an offer by the Cosmo ices in consultation said: . "This lic that I freely give my service without pay-and the use of my
laboratory, too, if you need it or experiments." The services of Prof. King, of Philadelphia, who has made more than 300 as-
censions, and is recognized as the most exprienced living aeronaut have been engaged as advisor in aeronautics. Capt. Lewis M. Haupt, professor of engineering. have charge of the engineering and mechanical work. Plans and suggestions will be due credit given for ideas utilzed.
The Cosmopolitan offers $\$ 500$ in prizes for thr
1st. $\$ 250$ for the most valua ble paper suggesting the best
methods of accomplishing the navigation of the air.
and. $\$ 100$ for the
2nab. $\$ 100$ for the second most 3rd. $\$ 150$ for the best paper on the result which successful aerial navigation would have upon the
moral and material interests of
the world.
The papers to be in the posses
sion of the Cosmopolitan before February 1st, 1892.

When a railroad company, says the Philadelphia Record. handles the Reading does, the question of weighing it becomes a matter of
some importance. Skill and experience have solved the prob lem, however, and the bulk of the vast coal tonnage of the leading coal-carrying road of the country is weighed on four scales, and then they are not crowded. The weight of the empty car is mark-
ed in chalk on the outside. As the car approaches. a clerk takes weight, the weigher calls out the gross weight, and the difference is the weight of the coal. The cars run as fast as ten miles an hour across the scale. and it is
very seldom that one has to be stopped and brought back for re weighing, although it is done if
the weigher is at all uncertain about his figures. The man at in a scales can generally tell with a car contains. As soon as they see the class of car coming they now the number of tons it contains, and have the scale so pre-
pared that only the hundredweights need be adjusted while pert officials of the over it. Ex tell at a glance what each class of cars should contain, and if, in looking over the weight sheet, any car appears either too heavy
or too light, it is brought back or too light, it
and re-werghed.

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