## THE BEND BULLETIN

 "For every man n square teat, noless and no more."
subscrimtion rates:

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Remit thy hank draft, pastal money
orier on Benidi exprate many orict, of oree one lecter Mhate ant re
payabie to The Bend kulletin.

## $\approx$ Stage and mail Schedute   For shanko vianiuk ill <br> 

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## FRIDAY, AUGUST 24, 1906

THE CAMPBELL SYSTEM. There is much discussion going regarding the 'Campbell system" of dry farming. For 23 years this man. H. W. Campbell, has been studying and perfecting a system of ducing marvelous results and is formerly worthless desert into fer tile fields and rich homes. With an untiring energy and a determination that knew no discouragement the kept at work studying the ac-
tion of moisture in the soil, disre garding the gibes of the skeptical and has funally given to the world method of soil cultivation the bene simply beyond calculation. Who can cosapute the, worth of a man the dry, hot home of sagebrush an cactus into great fields of grain, The result is a monument to one man's untiring energy and study. The service rendered mankind by
H. W. Campbell with his method of soil cultivation, and I metho bank with his creation of new varieties of vegetables, plants and fruits, places these men in the fore mastors.
Papers throughout Eastern and Central Oregon are discussing
Campbell's common sense methods and in a few localities his system is being tried with always favorable give this system a trial next year in tife vicinity of Bend is commendable and may result in much good in this part of the state. It is only by different systems of cultivation to various regions becomes known be watched with interest.
Bro. Myers of the Laidlaw Bulletin's takes exception to The L. Simmons' excellent ranch 't the Bend country." He would pre fer that the Simmons ranch be cred ited to Laidlaw. Well! Well! We Yet, Bro. Myers, for many years, "yea; long before the thriving little in man's mind, the country in this part of the Deschutes valley for Bend country." So The Bulleti was not so far amiss after all, Be
that as it may, we are glad to hear so many good crop reports from this whole "upper Deschutes valey" (as Bro. Myers would have it aw country's" prosperity, of Red nond's fine crops, and similar good reports riom all parts of the com ated upou having so valiant a de

## Mester Myers.

The action of certain parties in insisting on breaking a quaramtin established by the Bend board of
heaith, to say the least, deserves most severe censure. When board of health imposes a quarantine, with no purpose in mind other
than to obey the law and protect public health, and this quarantine is disregarded by some, there is no alternative left but a summary The recent arrests in Bend were amply justified and those arrested The city officials thenld be com mended for the faithful performance of a duty that, at the best, must have been an unpleasant and dis-
agreeable one.

Ths boom that was prematurely prung by some of "Uncle Joe' Cannon's friends in behalf of his candidacy as a presidential aspiception that was expected by others than Mr. Cannon. "Uncle Joe" is a
radical "stand-patter"on the tariff question and it is not to be wondered
at that a boom for "Uncle Joe" for president is not received with great avor by those of his party who
believe firmly in a protective tariff but who also are as firm in their y tariff should be revised
The Cuban people evidently cannot get away from the babits of the broken out on that island, a dark, deep plot to overthrow the present overnment has been discovered, arrests right and left. Great (?) armies of 200 and 300 men are be ing sent against the rebels. would seem that in the mind
the Latin-American life without volution is not worth livi

## VIOLATES QUARANTINB.

 George Reed Disregards Heath Regulation and Is Arrested. Last Monday George Reed, wheconvalesciug from an attack of scorlet fever and who had been under quarantine for some time, deiberately disregarded the law and about it o'clock at night left the
house where he was quarantined bouse where he was quarantined tention of calling at a place that apparently has great attractions for im-a house, the occupants of which were also under, quaran-
ine for having received letters rom the sick man and having isited him while quarantined.
For some reason theofficers For some reason the officers sus-
pected that such an attempt would ee made by Reed, théy were cordingly on the wateh, and vas caught and arrested. He w placed in the city lock-up and
when his quarantine expires will解 arraigned before Justice Ellis. The penalty for breaking a
quazantine is a fine of not less than 23 nor more than $\$ 100$ or 50 days
a jail, or both a fine and a jail sentence.

## Bids Wanted

Notice is hereby given that the rict No directires bids send Disoct No. 12 tiesires bids on so ricks
of wood split, ready for, the stove and piled in ricks io theyschool
basement. Separate bids uthast be urnished on eachonf the followting pecifications: 12,16 and 20 inci
lengths and on jimb wood, body pine and juniper, tids opened
September 4. The board reserves he right to reject-ill bids, 22-24


## Problems That Coniront The Irrigator

A fundamental requirement in This point should be permanently determination of grades. On small-

- the triange when the plamb line scale irrigution workssuch approxi-
mation as can be secured by care-- of the triangle will be point the the base ful use of very simple appliances though the survesor's level is de- To use this instrument for locating sirable, this can be dispensed with
the line of the ditch, caleulate the
then by using the simple sighting levels amount which the grade
described in books on drainage, and
rise in a distance equal to then
even these are not essential, for a even these are not essential, for a length of the base of the triangle
home-made appliance can be made secure the falt which is best to co
o give satisfactory results. Such vey the water, according o give satisfactory results. Such vey the water, according
a device is described below, which, character of soil, ete., a matt
ent athugh in constant use in some which will be discussed later.
whe
its of the country, does not seem Under one end of the base tasten be widely known. It will be small block with a thickness equal
to the desired rise. Below is given arm engineering where the location a table, showing the thickness of grades and levels is necessary- of blocks which shonld be used on
and no special hindrances inter- triangles of different lengths to nd no special hindrances interthat its usefuluess depends entirely pont the care with which it enty When a block of required thick. ferated.
The The use of a triangle(fig, t) was
drive a peg at the starting point, its
suggested to small irrigators in top, say, 6 inches from the proCallfornia many years ago by a
prominent irrigation engineer, C . posed bottom of the ditch. Place
the end of the leveling apparatus E. Grunsky, of San Francisco. It undet which the block is fastened
is constructed in this way:
upon this peg. with the other
The three pieces A B, B C, and end pointing in a general direction A are made fast to each other at $/$ from which the ditch is to come.



## A, B, and C. The board B D is <br> A, B, and C. The board B B is fastened to the triangle at right

 angles to A C. An ordinary carpenter's square used in the con-struction of the apparatus will insure sufficient accuracy in the position of B D. Near B, cti the board B D, a plumb line is made fast. The
plumb bob, like a mason's plumb plamb hangs in a hole, so that when
bob, is verticle the string hangs D is verticle the string hangs B D. When B D is exactly vertical angles at D are true rieht angle.
The dimensions of the triangle way be about as follows: A C, ${ }^{12}$
feet long; A B, absut 7 feet inches; B C, about to feet: feet
D, about 6 feet long, Other D, ibout 6 fect long, Other dimensions will do as well, the essen
tial features being the straight
boird A C and the board A C and the board B D a right angles to it and near enough
to one end of A C for the man catrying that end of the triangle to
see accurately the prosition of the plumb line. The board B D should not be less than 4 feet long, or the
plumbline will be too short to give
tatisfactory results. It will fre-

## The bottom of the block must rest

 upon the top of the peg. Bringhe apparatus to a level and set a peg 6 inches long so that its top
ust touches the bottom of the forward end of the apparatus. The
ower end of this last peg will then
 wark the bottom of the proposed
itch. This operation 'will be simplified by putting a leg just 6
nches long upon the forward end aches long upon the forward end
of the triangle. It will then be only necessary to swing the triangle around until the base is level,
when this leg will rest upon the bottom of the proposed ditch
Drive a peg here, which will, like he first. be 6 inches high from the ditch bottom, carry the triangle forwar
before.
Cont

Contour lines for checks or disributing ditches can be locate ocate a contour line (a line passing hrough points of equal elevation) as required in the construction of check levee, drive a peg until its top has a convenient elevation from the ground, say one foot. Put
leg of equal length on one end

| Amount of fall secured and thicknees of blocks required with triangles of different lengths.* |  |
| :---: | :---: |
| Length of bam of ifiangle. | Thiknitu uf thocks, bring the tupout of fereat grades, pir nile |
|  | . |
| Feet | Ioch Iuth tact tuch tuch |
|  |  |
|  |  |
|  |  |
| -The umberes tg ioar the head of the columes gre the number of fert of fill in the ditches per mite of length. The fractons totow these mumlers give ig inches the fall whed mues is allowed in the lengith of the urangle. Thase are correct to the neafent one-sixterntio of an inch |  |
| fly "be found convenient to | the triangle and rest the' other end |
| have a scale of feet marked off on | on the peg, then fwing the triangle around until the plumb line shows the base to be level. At this point |
| C. ${ }^{\text {c }}$, |  |
| In marking on the board B D |  |
| the line in which the plumb line | drive a secont peg sand proceed as |
| will hang when A C is exactly | before. If the pegs lare driven so |
| horizontal considerable care is | that the tops are arithe seight of the proposed levee they bay be re |
| tequired. | the proposed levee they may be retained as grade stakes for the em- |
| E for these points to rest on. The | bankment. |
| hfgest one is driven into the |  |
| ground until the plumb line follows | To find a point in the next contour line below, on which a check |
| about the center line of board B D. | levee should be raised so that its |
| Having marked this position of the | embankment will hold back the |
| plumb line, the triangle is reversed | water to the base of the higherone, |
| so that the end A rests on the peg |  |
| where befors, we had the end C, |  |
| and vice fetaid Should the plumb | aingle in the "drrection |
| line make dit angle with the first | Dosed levee, measure the distance |
| d, on the board, then the | Wom the 'end C to 'the siurface from |
| wil be exactiy in |  |
|  | Wha'point inse'the triangle again iu the same way and repeat the oper- |



## will supply enough water to nours-a fair amount for one vation of soll of average characte has not been allowed to becom hact, this is an average amoun actually wsed for an irrigation of diallow-rooted plants ilike mont NELSON VISITS CROOK

 these maps by the Hartiman pro-ple, it is of fterest to learn that

## the Bulletin that the Gonhl lmed

 the Corvallis \& Kastern iscredence in a reccent of nouncing that such was expetel

Chief İngineer Wags headquarters at Bend turing thr
summer, will move the office Chief Miller, who ferently
eturned with his crew from
orveying in the Coln crew and gone to Riley's ranch be
tween Bend and Kurns, about will work from Riley's
Burns, straightening out
Tumalo Items, Huston of Prinevile, with a party
consisting of his family and several
friends, day enroute for Crain Prairie for an J T. Wimer, Charles Spaugh
Swisher teturned from the mountains where they spent
several days fishing and hunting John Edwards and Bert Powel
are gathering horses to take to thi valley soon. rasses have bees put on display Laidlaw from this section of the
country which show what we cal raging in the vicinity of Black with smoke.
A number of the farmers are pre
paring to thresh. Several binder grain.
ing lis crop of hay and is now

Rosland Items

Melvin Howard, who has leen visitime

The hot wrather hase't put a ftop to
Whe hay harkest. Tlic stickes anit rake ine Colta in experected daity at thie teot.
ide of Mre Couk.
 The Callwell Brok, Hogue Brow, and
Ar. Reese have thicir cropue nurventel. Mrs. Wm, Mayifil, who has Leen
quite sick, is able to be up and around. Trank Bogne and D. Pindley are just
in the midits of haying, lint are grting
along nicely. Mr. Still, who han been friving the
tage from Roolund to lriuevile, In
 sen anyhing of the one hoss shay Mins Howard, who has been workiag
or Mrs, Will Hogue, has returned liome. Mr, and Mra. Wit Hogue are
leaving for the valley soon. Jour men from Hemi pangd through
he Dewhites Valley recently looking
nit delephoite line Tromi Bout to sif

## Real THE BULLETTN

VOUstiotid read Tus Bu:
It gives the news-all of it.

