FAGTS ABOUT LAST YEARS' FLOODS

Geological Survey Depart-

## ment Makes a Study

of The Subject.

The year 1903 had perhaps mor than its fuir share of natural calamity - of flood, and fire, and famine. In the United States, during May and June there were three notable floods. which caused serions loss of life and grent destruction of property -one in Oregon, one in South Carolinn, and one in Kanans. A recent publication of the United Stntes Geological Survey, scheduled as Water Supply and Irrigation Paper No. 96, contains a discussion of the vaioras phenomena connected with these floods and suggent meang for minimizing the de atructiveness of future deluges. The nuthor of the paper is Mr. Murphy.
The flood of shortest duration oceurred on Willow Creek, Morrow county, Oregon, Sudnay evening, June if 1303. It whs the result of what is popalarly called a eloudbarst, a hossy rain storm of short laration covering a very amall area and peenliar to urid regions. The flood that rose as the result of the heavy downpour of rain lasted less than an hoar, but in that short space of time one section of Heppuer, a town with " popalation of abont , barter million dollurs worth of prop crty was dustroved, and more that "rty was dostroyed, and more that 200 people were drowned. The great
lows of life was partly due to the lows of life was partly due to the
pecular construction of the bouses it Heppuer Nearly all these houses it Heppare Nearly all these houses
were buit on poste of wood or stone, were buit on posts of wood or stone,
from whish the flood lifted them und from whish the flood lifted them and
carried them awny to be dasted to pieces mgntust trees and other obstrue tions.
The South Carohna thool necurred on June 6. 1P03, and contimed for nearyl 24 hours. In that time then, was a ranitall of from 's's to 5 fuches over an aren of shont 2,500 spabare mites to the sonthern slope of the Blan Ridge sallada monntatise, insludiug parte of Cherokee, Spartan turg, and Picketas countios in Sontl Carolina, and Eutherford, Polk, and Hemderan vounties it Xorth Carolima. Dhis area is dratued by three komwn as the Piecolet. Pieer, ana Enoree. The prinelpal damage Facolet, wher" samerons cotton Fills wore ration mat moch rifivay property was de-ltosed. The kitise flowd necturred dorimk the last week of May and the first
therk of Jute It bifo ofed a moen werk of Jutie It befooled a moen
laveer arna than either the Hoppoer laveer atra thas elther the Heppoer
per second. In other words, if there RICH DRT AT
had been a storage reservoir one acre in area and $71 / 2$ feet in depth in each section of the whole drainage area of the Kansas river. the water flowing in the river on May 31 was sufficient to have more than filled all of them. The whole river bottom was flooded crops were destroyed, stock was crops were destroyed, stock was drowned, wooden bulidings were Eagle creek. The ditch on which lifted form their foundation work has been progressing for some lifted form their foundations an time has been partially completed, brick houses crumbled and fell, and sluicing has been beguu. railroads were undermined, and The ditch has been carried from bridges were swept away. Traffle in the diggings to Brown Bear creek and eastern Kansas was almost entirely this supply turned in. The intensuspended for two weeks. The prop- tion, however, is to carry it to Dixie erty loss in Kansas and in Kansas creek, a mile and a half further, and City, Missouri, is estimated to have tap this upply also, which will furbeen no less than 822,000,000.
Among the subjects considered in this paper are the effects of ground storage, of cultivation, and of foreats in reducing the magnitude of floods. The effect on streams of dams, of bridge piers, and abutments is dis. cussed; also the danger of building out into streams, thus nurrowing the waterway and increasing the magni ude of floods. The releif afforded by atraightening the channel is mentoned and the use of levees is explained.

## WILL PROBABLY

 INVEST HEREJ. A. Simpson, u prominent livery ban of Salem, was here between rains tolny with his old friend, sheriff llarvey K. Brown, whe is here on offleinl business.
Mr. Simpson is looking for a new location. It is his purpose to quit the livery basiness and ongage in some other line. He would prefer he furniture business of sone mer o Sumpter. He likes it this is the way he talks:
"Salem is an old settled comma nity. There are substantial interests here, but thinge go too slow to snit me. Sumpter people are kicking abont times being quiet, but they seem lisely. Penple are on the jump and werything seems brisk to me. You evidently have people who hase the stuff in them to make busi gesk. Mossbacks cortainly do not mhabit sour town, and this is more than can te raid of the average Ore 0n comanabity. If I can strike a deal of any kind, it is more than protable I will locate here,

Mr. Simpson had an interview be fore leaving with the Case Furniture Company reople with a view to buying it there. He prefers furniture


## HERE IO LOOK AFIER

IIIS MINNG PROPFRIY

## tht BROWN BEAR.

Jack Hazlewood came back Satur. day from his Brown Bear placers on Eagle creek. The ditch on which nish plenty of water for a long season. It will take about a month to complete the ditch. The water from Brown Bear, the present terminus of he ditch, however, will be sufficient
 reek is reached
These placers show evers evidence pextremely rich ditt. So far as prospected, Mr. Hazlewood says, the gravel will average over one dol? lar to the cubic yard.

## range war in crouk

COUNTY HAS STARTED.
The flirst depredation as a result of the conflicting territories occupied by the cattlemen and sheep owners in this county occurred last Monday, when 65 sheep belonging to Allie Joues were shot and killed on Mill creek by masked men, who threatened a greater slanghter if the band was not removed from that locality.
The killing happened on the west side of Mill creek, the herd of sheep heing it charge of Tom Paine, whe was arrial was surprised and nuable to offer any This first outhreuk This first outhreak agaiust the sheep marks the first step in the range difficulites which are likely to be encountered during the coming season. The scene of the killing is in the district in which an effort was made a short time ago to establish lites. The territory was visited by a party of sheep owners from Antelope and it was believed that matters
 tween them und the cattlemen in that part of the county. But nothing definite was decided upon and it is expeeted that the old lines will hold good this year. - Crook County Journal.

## SIGKNESS OF FAIHER

WILL DELAY WORK.
L. V. Swiggett, who recenly took over the Golden Chariot, in Bear gutch, through Dr. Brock, has been detaited by the serious sickness of his father at Helema, Montana. fat will protally not arrive here te fore the 4 th or Sth of Juls.
It is stifulated in the terme of the contract that work on the properts must begin duly 1, fut the hecpasar atily deliy operations for a few daye

## Don't 60 to st. Louls

## Salt lake,

Denver, Kansas City. Cllicheo st. COUIS HEW YOMK

Ocean steamers between Portland and San Francisco every five daye.

## Low Rates!

Tickets to and from all parts of the United States, Canada and Europe.
Through Pullman Standard and Tourist Sleeping Caru daily to Omaha, Chicako, Spokane: Tourst Sleeping car daily to Kansas City; through Pollman tourist slepping cars (persomally conducted) weekly to Chicago, Kansas ('ity; recliniag chair cars (seats free) to the Fest daily.

For particulars, call op ,r addreas
H. C. Bowrry

Agent, Rakat (ity


Goneral Agent.

OREGON Short line

