City Engineer Elliott Found Sulli-

van's Gulch Bridge Ready to

Tumble---Now Closed.

City Engineer Elliott shivered when he

to be the case with many others had

not been inspected for five years. Mr.

Elliott took up this work soon after tak-

ing office and has method of inspection

has been very thorough. He first bored

into the supports of the Sullivan's Gulch

bridge with an augur and found that

only a shell of solid wood on the out-

side held them together. He then placed

a pail of water, level full, on the bridge,

and when a City & Suburban car crossed

the structure a its vibrations almost

emptied the bucket. This was repeated

with a can of oil and the rotten condi-

tion of the bridge was so apparent that

all traffic over it was immediately

stopped. The roadway is now stoutly

barricaded and until it is rebuilt street

cars and all other travel will be prohib-

The Sullivan's Gulch bridge is more

than 75 feet above the bottom of the

gulch and had it tumbled down at a

time when a loaded car was crossing !t

there is no telling how many lives would

There are many other similar structures

ON SIDEWALKS

Board of Public Works Scorches

Its Fingers With It, Then Lets

the Matter Drop.

"It is my opinion that from the mo-

ment the cement sidewalk ordinances be-

came laws, it was unlawful to lay

wooden walks within the prescribed dis-

tricts," said C. A. Cogswell, member of

the Board of Public Works, at a meet-

ing of that body yesterday. "The ord!

nance prohibits laying new wooder

walks within a certain area. It makes

no difference, then, whether permits

had been previously issued or not, wood-

en walks cannot lawfully be haid after

its passage and approval by the mayor.'

These remarks opened up a small

flood of oratory, the question becoming

more and more complex as it was dis-

cussed. It was agreed, however, that

ORDINANCES

have paid the penalty of some one's neg-

ited from using it.

in like condition

BASEBALL PUGILISM THE TURF

SPORTING NEWS

Four furlongs-Meatora won. Rattler

RACES AT BUTTE.

Five furlongs, purse-Lady Superba

One mile and. 100 yards, selling-lilli-

ouon won. The Gaffir second, Monteagle

Five and one-half furlongs, selling-

Sad Sam won, Narra G. second, Algar-

One mile, owner's race-February won,

Whaleback second, The Scot third;

SALT LAKE, Aug. 20.-Lou Houseman

representing Jack Root, and Alex Grag-

gains for George Gardner, have practi-

cally arranged for a match between the

months, before any club offering the

as a place for pulling off the match.

. Matters Pugulistic.

Joe Youngs and Eddle Kennedy will

meet near Pittsburg in the near future.

Kennedy is the heavier man and should

prefers to tangle up with Young Me-

ROOT-GARDNER. ...

BUTTE, Aug. 20.-Results at Butte

econd; time, 0:481/2.

econd; time, 1:14%.

third; time, 1:48%.

time, 1:45, _-

Jim Jenries.

win easy.

Closkey.

etta third; time, 1:071/2.

sy Boy second; time, 1:011/2.

a Borgia second; time, 1:42%,

CYCLING TENNIS MOTORS

ighting for the last year, is out with a challenge to meet any of the welter-

weights Mike Donovan, who is well-known of One mile, selling-George Dewey won, the Coast, is looking for a match with any 145 pound man in the East. Six furlongs-Almoneer won, Modder Young Griffo, of Brooklyn, and Joe Five furlongs-Dr. Shairman won, Gyp-

Bernstein, will meet on Friday night in discovered the deplerable condition of the 20-round contest at Baltimore. bridge spanning Sullivan's Gulch on Martin Duffy has started training for Grand avenue. This bridge as was found

his contest with Otto Sieloff in New York on September 5. Clarence Forbes and Jack Gill are natched to fight at Mendota, 111., on

September 11. Harry Harris, who last year, defeated Pedlar Palmer, has been offered good nducements to give up the ring and besome a jockey. For the present he has declined the offer, and is trying to get match with either McFleden or Jor-Six furlongs, handlcap-Jennie Hughes

> Newport Tennis Games. NEWPORT, Aug. 20.-The games for the national tennis championship, played yesterday, resulted as follows: The double event between the champions of the East, R. F. and H. L. Doherty, the English pair, and Kreigh Collins and L. H. Waldner, of Chicago, Western champion. R. F. and H. L. Doherty won, 2-6, 6-3, 4-6, 6-3, 6-3.

> > Among the Wheelmen.

John Larson, the Minneapolis professional rider, is with the Jabour troupe. which will show in Portland during the two men, to take place within two Elks' carnival. Several weeks ago while looping the loop at Winnipeg, his bimost satisfactory purse. Chicago and cycle and disabled and received a bad San Francisco have both been mentioned fail

George Leander, of Chicago, has defeated Gus Lawson, of Salt Lake, in a ten-mile motor-paced race. The best time made in the three heats was 14 min Kid McCoy is looking for a match with utes and 58 seconds.

Wrestling.

Jerry Donnelly, of Dublin, bested George Winzenried, of Buffalo. The bout like to meet any 110-pound man. He of three falls. The Irishman threw his opponent three times in succession. The time was 12, 8 and I minute.

Harry Forbes and Kid Goodman will A match has been arranged between meet in St. Louis tomorrow night, and Gus Dohlen and Arthur Just, the noted fight for the bantam weight champion- welter weights, for a match to take place ship of the world. Goodman has the in New York. worst of it in weight and experience,

Tommy Bartlett, of Connecticut, is cut but expects to make it at least a draw if with a challenge to any 119-pound man

in the country. Efforts are being made to arrange a | Tom Jenkins, the champion catch-asmill between Joe Gans and Martin Duffy ratch-can wrestler of America, has signed articles to meet Ed. Atherton in New

he signing of the ordinance should have been the signal for immediate cessation of construction of plank sidewalks in the territories covered by the two ordinances. Then there was a dilemma. Discussion of the subject revealed the fact that no provision of the new ordinances empowered the City Engineer to enforce his notifications to build or repair cement walks, and that such improvements

must be initiated by the City Council by the tedious and combersome methods of resolution and advertisement, as now prevails in the case of street improvements. A remedy for the omissions in the ordinances was not discovered, and as though it were a hot iron, the sidewalk discussion was suddenly dropped, and the Board proceeded to the consideration of other subjects. The net result of the whole talk is that the public is informed that the

ddewalk ordinances cannot be enforced except by resolution of the Common 'ouncil and edvertisement, and that, then, the proposition may be killed by emorstrance of abutting property own-

It looks, therefore, as though the sidewalk ordinances have left the subject of such improvements in worse shape

Councilmen Rumelin and Bentley, charing about the ordinance today said:

"The new ordinances are identical with the old one, except that either cement, vitrified brick, re-pressed paving brick or sphalt is to be used instead of planks. grass which Mr. Leckenby found five If the former ordinance is good, those are likewise good. This prattle about experimenting with since with excellent them may result in delay and confusion. That is all. It is unfortunate, perhaps, that the subject was broached by the Board of Public Works, No good can come of it. The Council has no desire to work hardships on any one, but citizens will and that this ordinance will be enforced o the letter "

George T. Myers was at the City Engineer's office this morning attempting to have the hazzy sidewalk atmosphere cleared away. As the Board of Public Works dropped the matter exactly where it found it, Mr. Myers was compelled to depart unsatisfied. He is building a wooden sidewalk at Tenth and Davis streets, and permit secured since the passage of the cement ordinances, and was anxious to know if he could proceed. He will, do so without further enquiry.

had to be mind of north

Farmers in a Pig Hunt. Warren, Mass., residents last week had an exciting pig hunt as a result of the wreck of a freight train. Nine cars of hogs were overturned. When the cattle cars were overturned the pigs secured their free-lom and made their way into fields, where they spent the night. They began to search for food and by

daylight the process of rooting up crops and destroying gardens was well under way. The farmers were furious. By noon a considerable part of the population was engaged in rounding up the animals. Haskell Underwood did the most efficient work, his record being 132 During the day the railroad mustered several score of men to whom the task of driving the pigs to West Brookfield was delegated. Nearly 200 of the antmals were so badly injured that they p. m., and Seaside 6:56 p. m., making had to be killed, and the farmers se-

DEPLORABLE CONDITION SWEATBOX

Horrors Revealed for a Correspondent.

SECURING EVIDENCE

Police Methods of Forcing a Confession From Unwilling Witnesses.

The Journal is in receipt of a communication in reference to a practice adopted by officials of police departments and detective agencies to secure evidence and information of importance to be used in the capture or conviction of criminals. The query is self-explanatory as follows:

"To the Editor-Recent dispatches reporting the Bartholin murder case, Chicago, speak of Thompson, one of the suspects, as having 'become almost a physical wreck, under the sweat-box ordeal, and afterwards as pacing 'his cell in a nervous frenzy.' Please inform me exactly what is this 'sweat-box' forture and by what right, in this land of socalled freedom and 20th century civilization, suspected persons-possibly innocent-are subjected to its horrors, "M. B. C."

NATURE OF THE SWEAT-BOX. The so-called "sweat-box" system has been in vogue since the dawn of civilization. It is a method whereby involuntary information of any character is secured from a person. In ages past the measures adopted to achieve this end were by physical torture of a barbarous character. In many instances death was the penalty of silence or denial, even if the victim under suspicion was innocent. In the early history of the New Eng-

land states instances are on record of the torturing, even to the extent of death, of persons accused of witchcraft who refused to confess that they were guilty of the charge against them. This is an example of the "sweat-box" system of

LITTLE BODILY VIOLENCE. Today the measures have been modified, to the extent that the victims are rarely subjected to bodily violence. The 'sweat-box" practice in ordinary cases consists of a rigid cross-examination, and if this is ineffective, coercion and threats are adopted. If the prisoner is one accused of an exceptionally bad crime, and the facts at hand point strongly to his guilt, and he maintains a sullen silence or makes statements which are known to be false, sometimes more drastic means

SOLITARA CONFINEMENT. the dark room, or the bread and water dlet are often employed and in many cases bring about the desired results. In any criminal case the authorities make an effort to extort a sonfession from the man under arrest. With the knowledge gained by them in the investigation, supplemented by information from the prisoner, evidence is secured which facilitates the conviction and attains the aim of the law and justice.

HERE IN PORTLAND. In the local police department harsh treatment is never adopted. This rule holds good with the great majority of officials in the land. An occasional officer may allow his zeal for conviction to overcome his sense of humanity, and inflict physical or unusual mental torture on his victim. These things are not provided for by any law, neither are they sanctioned by the public nor the more intelligent peace guardians. In this connection an official is as amenable to the law as a private individual would be, did he take a similar course of action

and abuse a fellow-being. Only yesterday a confession was se cured from Harry Williamson, to a series of hold-ups and burglaries, by Chief Mc-Lauchlin and detectives, through the "sweat; box' system.

Several years ago the notorious Tracy was landed in the city jail by Dan Weiner, after a desperate gun fight, on the suspicion of being responsible for a serles of hold-ups. No evidence sufficient for a conviction was at hand. Tracy and his partner, Merrill, were "sweated" and enough information of a seemingly irrelevant nature secured to make the case against them complete.

A PLEASANT PARTY.

Professor and Mrs. E. J. Steele enter tained at their Ivanhoe home Monday evening a number of neighbors and friends from Woodstock and Fremon, The house was decorated with Chinese anterns which gave a very pretty effect. The merry party enjoyed drive whist the early part of the evening, after which lunch was served and the balance of the time was spent in music and singing.

Go to the Beach via the A. & C. R. R and Hear What the Wild Waves Have to Say.

The story "What the Wild Waves Say at Seaside" so strikingly told in the at tractive pamphlet recently issued by J. C. Mayo G. P. A. Astoria is better appreciated after a trip to the now popular Clatsop Beach via the A. & C. R. R. Cheap round trip excursion rates and unexcelled transportation facilities offered between Portland and the beaches continue to attract large crowds to Elavel Gearhart and Senside.

Round trip excursion tickets between Portland and all Clatsop and North Beach points are sold every Saturday at \$2.50 interchangeable with all boat lines and good to return Sunday evening. Train leaving Portland at 8 a. an. daily runs through direct to Gearhart and Seaside without transfer making close connection at Warrenton for Flavel. Portland-Scaside Express leaves Union Depot every Saturday at 2:30 .p. m. and runs through direct without transfer, arriving at Astoria 5:50 p. m., Gearbart, 6:40 close connection at Warrenton for Fla-

We need all there is, but with poor eyes the light we get is distorted. WE MAKE AND FIT GLASSES that will aid those poor eyes and equal distribution of light and a perfect picture of what we see. Life is too short to go through the world half blind.

A. & C. Feldenheimer

BIG CAMPMEETING

Atlanta to Have a Ten Days' Old Fashioned Gathering.

(Journal Special Service.) ATLANTA, Ga., Aug. 20.-The fourth annual camp meeting and convention of the Christian and Missionary Alliance began today at Exposition Park and will continue until the end of the month. There will be many sessions, each day from early morning until 10 o'clock at night. Many well-known preachers and workers are present, including Rev. A. B. Simpson, of New York, president of the Christian and Missionary Alliance; Rev. Henry Wilson, of New York, field superintendent; Rev. W. F. Meminger, of Chicago, also field superintendent, and other distinguished workers and preachers. A number of missionaries lately returned from China, the Congo and other foreign fields, are also present, and will

MARINE NOTES.

be heard during the meeting.

Michael Sheehan, a seaman, has begun a libel suit against the British ship Eskasoni, which is now loaded for South Africa and lying in the stream: Sheehan alleges that in March, 1902, he fell on the deck and dislocated his shoulder. He avers that he was denied medical attention, and that Captain Townsend, the master of the vessel, neglected to freat him for his injuries. He asks for dam ages in the sum of \$5000.

The schooner Forest Home and John A. will probably complete their lumber cargoes today.

The steamship Elba moved from the Greenwich dock to the Albint side of the river yesterday after having recelv ed 1000 tons of cargo. The Dimsdale finished discharging her

cargo of coal yesterday at the Oceanic

The Routenburn is at Montgomery dock No. 2 discharging ballast, and is expected to finish today.

The British ships W. J. Pierle, from Shanghai, and the Sliene Roe, from Antwerp, arrived at Puget Sound yesterday. The former has been chartered to load new crop grain for Baltfour, Guthrie & Co., at 28s. The Sliene Roe is on the disengaged list.

The steamer Alliance, of the Gray Steamship line, sailed last night for San Francisco and way points with a cargo of general merchandise and a full pas-

The George W. Elder will leave for San Francisco tonight with a cargo of flour, paper and considerably mixed freight. She will also have a good passenger list.

The French bark Cambronne left up this morning from Astoria. She comes from Leith, having sailed March 30. Batfour, Guthrie & Co. are the consignees.

The American schooner Transit left up the river from Astoria this morning at 8:15. She comes from San Francisco after a lumber cargo.

It is the unanimous opinion of all those iv sseusing Suiddius eqi ui perseneiui the port that the channel of the river will have to be greatly improved at the mouth of the Willamette. Captain Emkins says that the dredge can be engaged there to a profitable advantage for

CHRISTIANA

World's Young Men's Christian Association in Session Today.

(Journal Special Service.)

CHRISTIANIA, Aug. 20.-The World's Young Men's Christian Association began its fifteenth session in Christinia today and will continue through the remainder of the week. The opening meeting was devoted largely to the addresses of welcome and reports showing, the progress of Y. M. C. A. work in the Scandinavian countries. Some of the topics discussed, were "Organization Work in Different Countries," "Our Duties With Reference to the Claims of the Young Men in Heathen Lands," and "Mission Work for Young

Among the countries represented at the conference are the United States, Portugal, Russia, Spain, England, Switzerland, Germany, Austria and France. There are more than 50 American delegates present, in addition to a considerable number of American visitors. The two American speakers on the program are George T. Coxhead of St. Louis and Dr. James A. Canfield of Columbia University. The program is arranged so that there will be a series of simultaneous meetings in different places and conducted in diffeent languages

During the convention certain afternoons will be set aside for excursions to points of interest in Norway. Visits will he made to Holmenkollen, Bygdo, Copenhagen and other places. King Oscar has arranged to give an audience to the delegates, and the royal place and gounds will be left open for their inspection.

GREAT CROWDS

Attend Finish of the Great Show-Bengal Tiger Born Yesterday.

The circus is over and everybody is happy. Ringling Brothers surely have occasion to feel satisfied with what Portland has done and those who went are more than pleased with the great blg show. It was a success in every sense of the word and no better per forming or greater feats of skill and daring can be asked.

It is worth the whole price of admission to see the ponderous elephants go through their antics like a small boy and to observe what evident interest they take in their work. The horses had the real coon jingle as they danced the cake walk and the performing seals were a show in themselves.

There were crowds at every performance and they stayed until the last clown had been slapped in the face and kicked into almost insensibility. It was an entertainment from start to finish.

A tiger cub was born yesterday and is a source of great interest because it is very rarely that these little fellows are born in captivity. An eager crowd stayed around the mother's cage trying to get a view of the bit of life. It is understood that it will be named after the city of its birth,

ON THE CREST OF THE WAVES

Of progress. Our latest importations bring us just a little ahead of everybody-see these nobby conceits in FINE NECKWEAR, just arrived. The newest COLLAR SHAPES, just out. Express lots of new pattern SHIRTS, and corded and figured WAISTCOATS.

"Only Good Goods-Only Reasonable Prices."

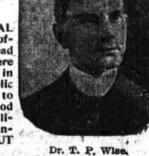
288 Washington Street, PORTLAND, OREGON. MEN'S FURSISHER and HATTER | Sole Agent for the Jameson Hat.



Intention Is that the DENTAL

Our

WORK done in this office shall be so far ahead of any other that there the mind of the public as to which dentist to consult. Our method is painless, our appliances the best obtainable. NO WORK BUT BEST WORK.



WISE BROS., Dentists

TACOMA WINS GAME

Spokane Very Weak at Batting Could Not Get a Score.

TACOMA, Aug 20 .- In the game of yesterday, Spokane was shut out and did not secure a single run. Their stick work was inferior. Harmon, the pitcher for the Tigers, performed good work. The feature of the game was the home run of Brockenfield. Score 9-0.

STANDING OF THE CLURS * Won. Lest. P. C

GAMES TODAY. Portland vs. Butte, at Butte. Seattle vs. Helena at Helena.

INLAND EMPIRE LEAGUE.

of the teams:
 Pendleton
 .17

 Walla Walla
 .12

 Baker City
 .9

 La Grande
 .9
 NATIONAL LEAGUE.

YESTERDAY'S GAMES. Brooklyn, 6-7; St. Louis, 1-0.

Chicago, 5; Philadelphia, 2. St. Louis, 11; Baltimore, 4.

Washington, 5; Cleveland, 4. RACES AT SEATTLE.

sociation yesterday: One mile, pacing-Adimont won; best

One mile, purse-Amzi won, LaCaima second. Abbyleix L. third; time, 1:43%. Seven furlongs, selling-Joe K. won, Hamptonian second, Kickumbob third; time, 1:14%.

won. Apple F. second. Tamm third: time, 1:02% won, Sea Queen second, Laureatea third; time.1:14%.

PENDLETON Aug. 20.-The first half of the series of the league games have been played. Pendleton is in the lead, and Walla Walla second. Baker City and La Grande are tie. Pendleton goes to Baker City this week and Walla Walla plats at La Grande. The standing

NATIONAL LEAGUE.

Won. Lost. P. C.
Pittsburg 72 24 750
Brooklyn 57 46 553
Boston 50 45 550
Chicago 51 49 519
Cincinnati 47 50 485
St. Louis 44 55 444
Philadelphia 40 60 400
New York 35 65 356

AMERICAN LEAGUE YESTERDAY.

SEATTLE, Aug. 20.-Following is the result of the second day's racing at the new track of the King County Fair As-

Cipoinnati, S. Boston, 7. w. m. ... Philadelphia, 8; Chicago, 5. Pittsburg, 5; New York, 4.

at Chicago. Charley Johnson, who has not done any York

he cannot win.

STATION AT UNION Valuable Work Being Done for Agri-

culture in Oregon—Some Interest-

ing News of Beets, Etc.

STATE EXPERIMENT

(Journal Special Correspondence.) UNION, Or., Aug. 15.-One of the most interesting institutions at Union is the State Experiment Station. It is located on the tract of 620 acres of land that Then the present method of cultivation was purchased by the state for a branch asane asylum. Failing to secure the branch insane asylum it was turned the surplus plants they should be sowed wer to the state a little over a year ago in hills. We find that this effects a to be used as a branch experiment sta- saving of seven-tenths of the seed. Andon to be conducted in connection with the Agricultural College of Corvallis, Oregon. A neat brick building costing is this: The potash salts or aikali works 2,500 was erected on the grounds. When to the top and forms a crust which a

ng purposes as it overflowed. DRAINED THE FARM. Last winter a mile and three-quarters of ditch was dug with an average depth of three feet and nine inches. It was dug at a very slight cost to the state and has rendered every acre susceptible

portion of it was unfit for use for farm-

of cultivation. A considerable portion of the land consists of peat land which is considered one of the best soils as It is almost inexaustible in its fertility. A soil containing much humus does not wear out readily and contains a great amount of the elements of plant food. At present 100 acres are in use for experimental purposes. One of the most important experiments, locally, is the

TESTING OF SUGAR BEETS. It is estimated that sugar beets cost from \$35 to \$40 per ton to raise. This sum includes the rent of the land or the literest on the capital invested, the cost of the seed, the labor of cultivation and the cost of transportation to the factory. | periment farm. Farmers receive \$4.00 per ton for their beets delivered at the factory. From 7 to 18 tons of sugar beets are raised to the acre. "The farmers do not begin to

receive the vaite of their beets." SAID A. B. LECKENBY. who is in charge of the experiment station. They receive but \$4.00 per ton for doubt as to the accuracy of our analysis. their sugar beets at the factory. The We sent sugar beets to the skeptical beets contain, on an average, 400 pounds ones for them to grind up and test for of chrystalizable sugar per ton and this themselves and in every case their does not take into account the secondary analysis was as high or higher than sugar or the molasses. Sugar beets ours. We made 3960 tests last year and could be made a very profitable crop if | we had more beets over 22 per cent than the farmers erected a co-operative sugar under 18 per cent and one beet analyzed factory or paid the present factory a 31.60 per cent. Of course we fair price for converting their beets into

TO PAY FOR EXTRACTION

. Dounds of sugar per ton clear of expense. This sugar should be worth at least \$3.00 per hundred, so they would receive \$12.00 per ton in place of \$4.00. is very wasteful. In place of drilling in the seeds and afterwards weeding out

other point in FAVOR OF HILL SOWING he land was turned over'a considerable single best finds difficulty in penetrating. When they are sown in hills a cluster of young beets lifts the crust with ease. Then the system of cultivation with a hoe is drudgery and results in a useless loss of time. We use a tool I recently

invented called the "scorcher." To my question, "WHAT IS A SCORCHER, and if it so good why don't you patent it?" Mr. Leckenby responded: "I never patent anything and I have invented a good many labor-saving devices. I believe in working for the good of all and not, by patenting an article, placing it out of the reach of those who need it most. The man who lightens the burden of labor is a public benefactor, while he who restricts the use of labor-saving devices is not. Here is the scorcher. It will cost a farmer not to exceed half a dollar and will do better work and three

times as much as a hoe with a tithe of the muscular exertion." Many very simple and effective and easily made tools are used on the ex-

"FASTERN SUGAR BEETS rarely analyze more than 18 per cent of sacharine matter while the Oregon beets the competent management of Mr. run as high as 31 per cent, though the Leckenby, valuable experiments in we published the results of our tests Fastern experiment stations expressed

CHOSE THE BEST BEETS sugar in place of selling them outright to analyze and saved the highest tested Four hundred pounds of sugar plus the ones for seed. We are working for 30 more degrees at 2 o'clock and 2 degrees secondary sugar and the molasses only per cent beets and I think we will make at 3 o'clock, making a temperature of brings them \$4.00 per ton. The secondary it. We will get more than a thousand 56 degrees last till 6 o'clock when the sugar and the molasses could be made pounds of beet seed from our highest thermometer took a drop to 82 degrees, tested beets this year. This is fine soil of the sugar. This would give them 400 for beets and if properly cultivated and degrees at 8 o'clock.

If the farmer gets any where near their value they are a very profitable crop." THE EXPERIMENTAL FARM

year of various grains and grasses. Much of it is for free distribution to farmers. There will be at least a ton of Oregon brome grass seed for free distribution. It is a very hardy grass of great nutritive value. Last winter the Oregon brome grass was choked out by mustard and wild oats. The frosts killed the weeds and did not injure the brome grass in the least. "We are hav awn and hay varieties of blue grass and also the hardy Bermuda grass. This pospulum will be very useful as a for-

age grass for swampy lands. THE NEW VARIETY OF CORN which we are experimenting with is hybrid between Stowall's Early and White Cory. It matures early and is very prolifie." Mr. Leckenby has interested the farmers in raising seed for sale as it is a very profitable business and one capable of unlimited extension. Twenty-eight acres have been put in this year and 40 more will be put in for seed next year. Mr. Dobbs has a very fine lot of seed onlons, and other vegetables which are being raised for seed.

MR. A. B. LECKENBY

circumstances at all similar." The experiment station is a very valuable thing to Eastern Oregon for under average is from 18 to 22 per cent. When grasses suitable to arid and semi-arid lands are being made.

FRED LOCKLEY, JR.

Weather stock took a rise yesterday afternoon and took a tumble foday. The highest temperature yesterday was 86 degrees which lasted from 3 to 6 o'clock This meant a rise of 30 degrees from 6 o'clock a. m. Noon registered 75 degrees with a rise of 5 degrees at 1 o'clock, 4 then to 78 degrees at 7 o'clock and 75

THE WEATHER YESTERDAY.

will harvest large amounts of seed this

was formerly connected with the Divislon of Agrostology and was for 11 years the special agent in charge of grass and forage plant investigations on the Pacitic Coasa. I spent a pleasant afternoon at the experiment station and a pleasant evening at his home. He has a splendid collection of negatives of weeds. grasses, plants, etc., embracing over 2000 plates. The brome grass was a native years ago near Portland and has been results. When I expressed my surprise at the remarkable results attained, for example a self-rooting variety from the native brome grass, Mr. Leckenby said: "The law of plant variations is not a long and gradual growth but under new and favorable conditions of development along the line of its inclination new and better forms result. We have evolved a valuable stoleriferous variety from the third generation of the brome. Take a seedling apple or cherry, each treet arising from the seeds of the long-cultivated parent tree may be different yet their progeny will be identical with their parent through succeeding generations. Each variety is true to its own function. For example the Baldwins will all

bloom the same day if situated under